

PY-SC-64-3

1964 - SAN DIEGO COUNTY EGG COST STUDY

With a 5-Year Summary 1960 - 1964

Prepared by Robert H. Adolph, Farm Advisor  
In Cooperation with Egg Producers of San Diego County

SPECIAL NOTE REGARDING THIS STUDY

The 1964 San Diego County Egg Cost Study was conducted by the Agricultural Extension Service University of California in cooperation with local poultrymen. The individual cooperators sent in 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.

This study comprises the results from 28 specialized commercial egg producing ranches. The results are based on a total average of 703,097 laying birds from flock sizes of 4,000 to 115,000, with an average of 25,111 hens per flock. There was a 7% increase in the number of layers on these ranches during 1964.

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, San Diego County

GENERAL INFORMATION AND MANAGEMENT

Housing was generally 30-foot wide truss houses with lath or plastic curtain siding. All, except two cooperators, (who had wire floor pens) used standard cages 8 inches to 24 inches wide, housing 2 to 6 birds per cage with 4 inches of feeder space per bird. Three of these ranches used mechanical feeders for their laying birds.

Egg handling methods are indicated in the report. Special mention should be made that most ranches do not clean and size grade eggs on the ranch which is the main reason for the lower labor requirement as compared to 1960, 1961 and 1962.

Results of this year's report are arranged in the order of total costs of egg production per dozen. This evaluation should not be the only consideration of efficient management. For this reason a breakdown of over 50 other considerations are presented for a more detailed analysis of results.

Feed used for replacement was calculated on the basis of 25 pounds of feed per pullet replaced and 13 pounds of feed for 16-week old started pullets to six months of age. Total hen days were divided by 366 to obtain average number of layers. Replacements were added to the laying flocks by 6 months of age, or 50% rate of lay. Year around replacement was generally used. 17 of the cooperators replaced 4 or 5 times with the other 11 replacing 2,3,6,7, or 8 times. The average was 5 times during the 12 months' study period.

## EXPLANATION OF TERMS

TABLES I and II - All figures are reported as per dozen eggs based on the total dozen eggs produced. Feed costs reported on Table I are for layers only. Feed for replacements are included along with chick cost and started pullet costs on Table II. Net replacement cost is obtained by adding replacement feed cost and replacement stock cost and subtracting cull income and increase or decrease in inventory value of stock at the end of the year from the opening stock inventory value. Interest was based on 6% of remaining value for housing and equipment, average stock inventory value, and land at agricultural use value. Depreciation was figured at approximately 10% of remaining value of buildings and equipment. Home labor was calculated at \$1.50 per hour. Egg income prices reported was for all eggs sold at wholesale only.

TABLES III and IV - Data presented on these two tables are dollars per average hen based on average number of layers.

TABLES V and VI - These tables include factors of production which are related to costs presented in the first four tables. Included are costs of chicks, started pullets, feed cost per hundred pounds, income per cull hen sold. Feed ratios, eggs produced, per cent of average laying flock died, culled, and added, are also included. Actual replacement rate could be figured by averaging the total of culled and died and the total per cent replaced. The study average of 15% died and 76% culled would be 91%. The 97% added averaged with 91% culled and died, would give a net replacement of 94% for the 1964 average. The per cent old hens is based only on beginning, mid-year, and end of year averages, and may be considered as only approximate.

% Large and % Extra Large eggs include only those eggs grading out as AA or A's. Grade B Large and Chex are not included in the per cent large pack except on ranches where these eggs are not graded out at the time of sizing eggs on the ranch. Particular note should be made that most ranches are selling eggs for the dealer to clean and grade out. This has resulted in lower labor requirements per hen.

All eggs produced are considered as being laid by the laying flock. The 3 to 5 eggs laid per hen previous to six months of age are included in the average number of eggs produced per layer per year. The average rate of lay for the study year is reported at 66% or 242 eggs per hen. The rate of lay without extra pullet eggs would actually be about 65% or 238 eggs per hen.

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TABLE I - CENTS COSTS AND INCOME PER DOZEN EGGS PRODUCED - See TABLE II for Breakdown on Costs marked \*

Rank & Size**	Feed Cost Layers Only	Net* Replace-ment Cost	Supplies Other Misc. Costs	Hired Labor	Net Cash Cost	Deprec* Interest Home Labor	Manage-ment 10% Costs	Total Cost of Eggs	Egg Income per Dozen Wholesale	+ Profit - Loss
1 D	12.9¢	4.1¢	1.2¢	1.2¢	19.4¢	2.0¢	2.1¢	23.7¢	28.3¢	+ 4.6¢
2 D	13.5	3.6	1.0	1.7	19.8	1.9	2.2	23.9	----	---
3 A	12.9	3.7	2.3	.1	19.0	3.4	2.3	24.7	27.4	+ 2.7
4 D	14.2	3.8	.8	1.6	20.4	2.3	2.3	25.0	28.2	+ 3.2
5 B	12.9	6.0	1.1	1.0	21.0	1.7	2.3	25.0	28.7	+ 3.7
6 C	13.9	4.4	1.8	1.3	21.4	1.5	2.3	25.2	26.9	+ 1.7
7 C	13.5	4.4	1.7	1.3	20.9	2.3	2.3	25.5	26.6	+ 1.1
8 B	12.7	7.2	.4	1.0	21.0	2.5	2.3	25.8	26.8	+ 1.0
9 C	13.7	5.4	1.4	1.6	22.1	1.9	2.4	26.4	28.0	+ 1.6
10 B	13.3	5.6	1.1	1.5	21.5	2.8	2.4	26.7	----	---
11 B	12.5	6.2	1.7	1.7	22.1	2.3	2.4	26.8	26.6	- .2
12 D	14.0	5.1	2.0	1.9	23.0	1.6	2.4	27.0	----	---
13 A	13.8	4.0	1.3	0	19.1	5.5	2.5	27.1	27.5	+ .4
14 A	14.1	4.2	.8	1.0	20.1	5.0	2.5	27.6	26.5	- 1.1
15 B	13.9	4.3	2.0	2.7	22.9	2.2	2.5	27.6	28.0	+ .4
16 B	12.9	5.6	1.8	1.6	21.9	3.7	2.5	28.1	28.4	+ .3
17 A	13.0	5.6	2.2	2.5	23.3	2.3	2.6	28.2	28.1	- .1
18 B	13.6	4.1	1.7	2.7	22.1	3.8	2.6	28.5	28.5	+ .0
19 A	14.7	4.8	3.0	1.4	23.9	2.0	2.6	28.5	28.2	- .3
20 A	13.5	5.0	2.7	2.8	24.0	2.3	2.6	28.9	29.3	+ .4
21 B	15.1	6.4	1.0	1.6	24.1	2.4	2.7	29.2	26.9	- 2.3
22 A	14.8	5.0	2.2	.5	22.5	4.8	2.7	30.0	28.3	- 1.7
23 B	15.1	5.1	2.1	1.1	23.4	4.0	2.7	30.1	28.3	- 1.8
24 D	14.0	5.1	1.4	4.2	24.7	2.8	2.8	30.3	----	---
25 B	16.4	5.7	1.2	.6	23.9	4.8	2.9	31.6	27.8	- 3.8
26 A	13.6	8.4	1.2	3.5	26.7	2.1	2.8	31.6	----	---
27 C	14.8	6.5	3.3	2.3	26.9	2.8	3.0	32.7	28.1	- 4.6
28 D	16.9	5.5	3.1	2.7	28.2	2.0	3.0	33.2	28.1	- 5.1
Avg '64	13.8	4.7	1.5	1.8	21.8	2.4	2.4	26.6	27.9	+ 1.3 (28 rec.)
Avg '63	13.1	4.8	1.7	1.8	21.4	2.5	2.5	26.4	28.4	+ 2.0 (28 rec.)
Avg '62	13.1	4.4	2.2	2.2	21.9	2.9	3.0	27.8	28.9	+ 1.1 (28 rec.)
Avg '61	12.9	4.3	1.9	2.2	21.3	3.2	3.0	27.5	31.5	+ 4.0 (37 rec.)
Avg '60	12.5	4.2	2.2	2.1	21.0	4.4	3.3	28.7	33.3	+ 4.6 (32 rec.)
Average 5 Years	13.1	4.5	1.9	2.0	21.5	3.1	2.8	27.4	30.0	+ 2.6 (Total - 153 Records)

Size of Flock\*\* - 4,000 - 10,000 = A; 10,000 - 20,000 = B; 20,000 - 30,000 = C; Over 30,000 = D.

TABLE 11 - CENTS COSTS PER DOZEN EGGS PRODUCED - See Table 1 For Total Costs per Dozen

Rank & Size*	STOCK COSTS PER DOZEN EGGS PRODUCED						Per Doz. Eggs Prod. Capital & Labor			Dozen Eggs Prod. per Hen
	Feed for Replcmts	Chicks Cost	Started Pullet Costs	Credit Cull Income	+ or - Stock Inv. Value	Net Replcmt Cost	Depre- ciation 10%	Interest 6%	Home Labor @ \$1.50/hr.	
1 D	4.1¢	1.7¢	0	-.7¢	- 1.0¢	4.1¢	.9¢	1.0 ¢	.2¢	20.9
2 D	4.7	1.8	0	- 1.0	- 1.9	3.6	.9	1.0	0.0	20.7
3 A	3.5	1.6	0	- .3	- 1.1	3.7	.7	.8	1.9	21.5
4 D	3.6	1.3	0	- .9	- .2	3.8	1.1	1.2	0.0	20.1
5 B	1.6	0.0	5.5¢	- 1.0	- .1	6.0	.8	.9	0.0	21.0
6 C	4.1	2.0	0	- .9	- .8	4.4	.6	.8	.1	20.7
7 C	3.8	1.4	0	- .7	- .1	4.4	1.0	1.0	.3	21.1
8 B	2.0	0.0	8.6	- .6	- 2.8	7.2	.9	.9	.7	19.9
9 C	3.5	1.2	1.6	- .6	- .3	5.4	.9	.6	.4	19.4
10 B	2.0	0.0	5.4	- .6	- 1.2	5.6	1.4	1.4	0.0	20.1
11 B	2.0	0.0	8.2	- .7	- 3.3	6.2	1.0	1.1	.2	21.3
12 D	3.3	1.3	1.6	- .7	- .4	5.1	.6	1.0	0.0	19.7
13 A	4.6	1.6	0.0	- .5	- 1.7	4.0	1.0	1.1	3.4	19.9
14 A	4.0	1.4	0.0	- .7	- .5	4.2	.7	1.1	3.2	20.2
15 B	4.3	1.8	0.0	- 1.4	- .4	4.3	1.2	1.0	0.0	19.9
16 B	4.0	1.7	0.0	- .8	+ .7	5.6	1.0	.9	1.8	20.8
17 A	4.6	2.5	0.0	- .6	- .9	5.6	.8	1.5	0.0	19.2
18 B	3.6	1.2	0.0	- .4	- .3	4.1	1.2	.9	1.7	20.7
19 A	3.7	1.5	0.0	- .6	+ .2	4.8	.8	.8	.4	18.8
20 A	4.1	1.6	0.0	- .8	+ .1	5.0	1.1	1.2	0.0	20.5
21 B	2.7	0.0	13.6	- .9	- 9.0	6.4	.7	1.0	.7	19.5
22 A	3.9	1.6	0.0	- .4	- .1	5.0	1.1	1.2	2.5	20.3
23 B	5.6	1.7	2.5	- .7	- 4.0	5.1	1.0	1.3	1.7	19.5
24 D	3.5	1.6	0.0	- .7	+ .7	5.1	1.7	1.1	0.0	19.1
25 B	4.0	.8	0.0	- .4	+ 1.3	5.7	.9	1.2	2.7	18.8
26 A	3.3	1.3	7.0	- 1.0	- 2.2	8.4	1.2	.9	0.0	19.6
27 C	4.7	1.9	0.0	- .5	+ .4	6.5	1.0	1.3	.5	18.8
28 D	3.8	1.2	0.0	- .8	+ 1.3	5.5	.5	.7	.8	19.0
Avg-1964	3.8	2.6		- .8	- .9	4.7	1.0	1.0	.4	20.1
Avg-1963	4.1	2.0		- .7	- .6	4.8	1.1	1.1	.3	20.2
Avg-1962	4.3	2.5		- .9	- 1.5	4.4	1.1	1.1	.7	20.4
Avg-1961	4.0	2.0		- 1.0	- .7	4.3	1.2	1.0	1.0	20.5
Avg-1960	4.1	2.1		- 1.0	- 1.0	4.2	1.5	1.4	1.5	19.8
Average -										
5 Years	4.1	2.2		- .9	- .9	4.5	1.2	1.1	.8	20.2

See Pages 1 and 2 for explanation of terms and further information.  
See Table 1 for Flock Size.\*

TABLE III DOLLAR COSTS AND INCOME PER AVERAGE LAYER (Total H Days ± 366 days) See Table IV for Breakdown on Costs marked\*

Rank and Size**	Feed Layers Only	Net* Replc-ment Cost	Supplies & Other Misc. Costs	Hired Labor	Net Cash Cost	Deprec* Int. Home Labor	Management 10%	Total Cost of Eggs	Egg Income Based on Whsle Egg Price	+ Profit - Loss per Hen
1 D	\$ 2.71	\$ .85	\$ .25	\$ .26	\$ 4.07	\$ .44	\$ .45	\$ 4.96	\$ 5.92	+ \$ .96
2 D	2.79	.74	.20	.36	4.09	.44	.45	4.98	-----	-----
3 A	2.74	.85	.50	.02	4.11	.74	.48	5.33	5.90	+ .57
4 D	2.85	.76	.16	.33	4.10	.46	.46	5.02	5.67	+ .65
5 B	2.69	1.28	.23	.21	4.41	.35	.48	5.24	6.01	+ .77
6 C	2.88	.91	.37	.28	4.44	.31	.48	5.23	5.57	+ .34
7 C	2.85	.93	.36	.27	4.41	.50	.49	5.40	5.62	+ .22
8 B	2.50	1.39	.08	.21	4.18	.49	.46	5.13	5.32	+ .19
9 C	2.67	1.11	.27	.32	4.37	.38	.47	5.22	5.43	+ .21
10 B	2.65	1.13	.23	.31	4.32	.56	.49	5.37	-----	-----
11 B	2.64	1.34	.35	.37	4.70	.49	.52	5.71	5.66	- .05
12 D	2.77	.99	.39	.38	4.53	.31	.48	5.32	-----	-----
13 A	2.75	.80	.25	.00	3.80	1.10	.49	5.39	5.46	+ .07
14 A	2.82	.85	.17	.20	4.04	1.02	.51	5.57	5.34	- .23
15 B	2.75	.87	.40	.54	4.56	.45	.50	5.51	5.58	+ .07
16 B	2.67	1.15	.37	.34	4.53	.78	.53	5.84	5.89	+ .05
17 A	2.50	1.07	.42	.48	4.47	.44	.49	5.40	5.38	- .02
18 B	2.81	.84	.36	.56	4.57	.79	.54	5.90	5.90	.00
19 A	2.78	.89	.56	.28	4.51	.38	.49	5.38	5.31	+ .07
20 A	2.77	1.02	.56	.58	4.93	.47	.54	5.94	6.01	+ .07
21 B	2.95	1.24	.19	.32	4.70	.47	.52	5.69	5.25	- .44
22 A	3.01	1.01	.45	.10	4.57	.98	.55	6.10	5.73	- .37
23 B	2.95	.97	.40	.22	4.54	.79	.53	5.86	5.50	- .36
24 D	2.63	1.03	.27	.81	4.74	.54	.52	5.80	-----	-----
25 B	2.91	1.00	.23	.10	4.24	.85	.51	5.60	5.22	- .38
26 A	2.68	1.61	.24	.68	5.21	.41	.56	6.18	-----	-----
27 C	2.77	1.22	.62	.43	5.04	.54	.56	6.14	5.27	- .87
28 D	3.21	1.03	.59	.53	5.36	.39	.58	6.33	5.34	- .99
Avg'64-25,111	2.79	.92	.30	.37	4.38	.48	.49	5.35	5.62	+ .27
Avg'63-21,342	2.70	.91	.34	.36	4.31	.53	.50	5.34	5.73	+ .39
Avg'62-16,331	2.74	.83	.44	.45	4.46	.59	.61	5.66	5.90	+ .24
Avg'61-13,364	2.69	.84	.38	.46	4.37	.66	.62	5.65	6.45	+ .80
Avg'60- 9,478	2.55	.78	.43	.42	4.18	.88	.66	5.72	6.61	+ .89
Average- 5 Years	2.70	.85	.37	.41	4.33	.63	.58	5.54	6.06	+ .52

\*\* For Flock Size - See Table I.

See Pages 1 and 2 for explanation of terms and further information.

TABLE IV DOLLAR COSTS AND CREDITS PER AVERAGE LAYER (Total Hen Days ÷ 366 days) See Table III for Total Costs per Hen

Rank and Size	Feed for Replc-ments only	Pullet Chick	Started Pullet	Less Cull Income	+ or - Stock Invent. Value	Net Replc-ment Costs	CAPITAL AND HOME LABOR			Hired & Home Labor Cost per Hen
							Deprec.10% remaining value	6% Int. Housing Stock & Land Value	Home Labor \$1.50 per hr.	
1 D	\$.85	\$.36	-----	\$ -.14	\$ -.22	\$.85	\$.18	\$.21	\$.05	\$.31
2 D	.97	.38	-----	-.21	-.40	.74	.21	.23	---	.36
3 A	.80	.35	-----	-.07	-.23	.85	.16	.18	.40	.42
4 D	.73	.26	-----	-.19	-.04	.76	.22	.24	---	.33
5 B	.36	---	1.16	-.19	-.05	1.28	.16	.18	.01	.22
6 C	.85	.41	-----	-.18	-.17	.91	.12	.16	.03	.31
7 C	.80	.30	-----	-.16	-.01	.93	.22	.21	.07	.34
8 B	.36	---	1.71	-.11	-.57	1.39	.17	.18	.14	.35
9 C	.75	.23	.31	-.12	-.06	1.11	.17	.13	.08	.26
10 B	.41	---	1.09	-.13	-.24	1.13	.28	.28	---	.21
11 B	.44	---	1.75	-.14	-.71	1.34	.21	.23	.05	.42
12 D	.62	.25	.32	-.13	-.07	.99	.12	.19	---	.38
13 A	.91	.33	-----	-.10	-.34	.80	.19	.22	.69	.69
14 A	.83	.28	-----	-.15	-.11	.85	.14	.22	.66	.86
15 B	.87	.36	-----	-.27	-.09	.87	.24	.21	---	.54
16 B	.83	.35	-----	-.17	+.14	1.15	.20	.18	.39	.73
17 A	.88	.48	-----	-.12	-.17	1.07	.16	.28	---	.48
18 B	.74	.25	-----	-.09	-.06	.84	.25	.19	.35	.91
19 A	.68	.28	-----	-.11	+.04	.89	.15	.16	.07	.35
20 A	.83	.33	-----	-.16	+.02	1.02	.23	.24	---	.58
21 B	.51	---	2.66	-.17	-1.76	1.24	.13	.20	.14	.33
22 A	.79	.32	-----	-.08	-.02	1.01	.22	.24	.52	.62
23 B	1.08	.34	.48	-.14	-.79	.97	.20	.26	.33	.55
24 D	.72	.30	-----	-.13	+.14	1.03	.33	.21	---	.81
25 B	.70	.14	-----	-.07	+.23	1.00	.16	.21	.48	.58
26 A	.62	.25	1.37	-.19	-.44	1.61	.24	.17	---	.68
27 C	.88	.36	-----	-.10	+.08	1.22	.20	.24	.10	.53
28 D	.72	.22	-----	-.15	+.24	1.03	.09	.14	.16	.69
Avg. 1964	.76		.51	-.16	-.19	.92	.19	.21	.08	.45
Avg. 1963	.77		.41	-.15	-.12	.91	.23	.23	.07	.43
Avg. 1962	.81		.50	-.17	-.31	.83	.23	.23	.23	.58
Avg. 1961	.78		.41	-.21	-.14	.84	.25	.21	.21	.66
Avg. 1960	.75		.42	-.20	-.19	.78	.30	.27	.31	.73
Average-5 Yrs.	.78		.45	-.19	-.19	.85	.23	.23	.17	.57

See Pages 1 and 2 for explanation of terms and further information.

UC Cooperative Extension

TABLE V

## FACTORS OF EGG PRODUCTION

Rank and Size	Avg. % Egg Prod.	No. Eggs per Hen	% Lg. & X Lg. A's Sold Whole	Pounds of Feed per Hen		Ratio of Pounds Feed per Doz. Eggs		Cost Feed per cwt.	All Feed Cost per Hen	Cost per Each	
				Layers only	All incl. Replcmts.	Layers only	All incl. Replcmts.			Chicks	Started Pullets
1 D	69	251	73	89	114	4.2	5.5	\$ 3.11	\$ 3.56	\$ .32	----
2 D	68	248	--	91	120	4.4	5.8	3.13	3.76	.31	----
3 A	69	254	67	94	119	4.4	5.5	2.97	3.54	.32	----
4 D	66	242	70	93	115	4.6	5.7	3.12	3.58	.30	----
5 B	69	252	78	92	103	4.4	4.9	2.95	3.05	---	\$ 1.36
6 C	68	249	63	95	121	4.6	5.9	3.07	3.73	.30	----
7 C	69	254	67	94	120	4.5	5.7	3.07	3.65	.31	----
8 B	65	238	60	85	99	4.3	5.0	2.97	2.86	---	1.33
9 C	64	233	67	90	114	4.6	5.9	3.01	3.42	.28	\$ 1.35
10 B	66	241	76	87	100	4.4	5.0	3.06	3.06	---	1.31
11 B	70	255	66	89	103	4.2	4.9	2.99	3.08	---	1.30
12 D	64	236	73	89	109	4.6	5.5	3.12	3.39	.30	1.42
13 A	65	239	74	88	115	4.4	5.8	3.18	3.66	.26	----
14 A	66	242	62	94	119	4.7	5.9	3.07	3.65	.32	----
15 B	65	239	72	93	119	4.7	6.0	3.03	3.62	.35	----
16 B	68	249	75	90	117	4.4	5.6	3.01	3.50	.36	----
17 A	63	230	67	82	109	4.3	5.7	3.09	3.38	.36	----
18 B	68	248	65	93	116	4.5	5.6	3.07	3.55	.32	----
19 A	62	226	71	91	111	4.8	5.9	3.11	3.46	.35	----
20 A	67	246	83	92	118	4.5	5.7	3.06	3.60	.32	----
21 B	64	234	61	97	112	5.0	5.8	3.08	3.46	---	1.41
22 A	66	243	72	92	114	4.5	5.6	3.33	3.80	.39	----
23 B	64	234	65	97	130	5.0	6.7	3.10	4.03	.32	1.35
24 D	63	229	72	87	108	4.5	5.7	3.09	3.35	.33	----
25 B	62	226	70	95	116	5.4	6.6	3.11	3.61	.34	----
26 A	64	235	---	87	106	4.4	5.4	3.11	3.30	.39	1.42
27 C	61	225	64	89	116	4.8	6.2	3.15	3.65	.39	----
28 D	62	228	73	102	123	5.4	6.5	3.20	3.93	.30	----
Avg '64	66	242	72	91	115	4.5	5.7	3.10	3.55	.32	1.35
Avg '63	67	243	69	88	111	4.3	5.5	3.12	3.47	.33	1.33
Avg '62	67	245	72	90	115	4.4	5.6	3.08	3.55	.35	1.34
Avg '61	67	246	71	91	115	4.4	5.6	3.02	3.47	.36	----
Avg '60	66	241	70	89	114	4.5	5.7	2.90	3.30	.39	----

Average

5 Years 67 243 71 90 114 4.4 5.6 3.04 3.47 .35 1.33

See Pages 1 and 2 for explanation of terms and further information.

UC Cooperative Extension

TABLE VI

## FACTORS OF EGG PRODUCTION

Rank and Size	All Labor Hrs. per Hen	Eggs Cleaned Sized or both on Rch.	% Replcmts Started Pullets	% of Avg. Laying Flock during Year				% Hens over 18 mos.	% Chicks Loss to 6 months	Cull Income per each
				Died	Culled	Added	Net Increase			
1 D	.24	None	0	13	77	102	+ 12	13	3	\$ .18
2 D	.24	None	0	9	87	98	+ 2	14	4	.24
3 A	.27	None	0	14	53	104	+ 37	8	3	.21
4 D	.27	None	0	16	82	82	- 16	9	4	.23
5 B	.15	None	100	13	74	100	+ 13	25	1	.16
6 C	.22	None	0	14	73	92	+ 5	--	11	.24
7 C	.26	None	0	14	84	97	- 1	0	7	.18
8 B	.19	None	100	18	60	102	+ 24	0	0	.15
9 C	.26	None	13	21	82	110	+ 7	14	7	.18
10 B	.21	None	100	16	62	108	+ 30	10	1	.22
11 B	.29	None	100	14	67	89	+ 8	30	0	.20
12 D	.26	None	23	20	56	93	+ 17	22	10	.21
13 A	.46	None	0	16	57	100	+ 27	12	4	.19
14 A	.63	None	0	26	78	91	- 13	13	5	.20
15 B	.29	None	0	21	77	99	+ 1	5	6	.16
16 B	.54	Both	0	12	97	118	+ 9	0	8	.19
17 A	.32	None	0	10	87	108	+ 13	0	4	.18
18 B	.55	Cleaned	0	20	62	88	+ 6	25	18	.21
19 A	.30	None	0	13	46	101	+ 42	33	4	.24
20 A	.39	Both	0	18	85	99	- 4	13	8	.20
21 B	.37	None	100	12	109	128	+ 7	14	0	.15
22 A	.42	Both	0	17	52	109	+ 40	13	6	.18
23 B	.40	Cleaned	27	19	65	130	+ 46	21	15	.23
24 D	.56	Both	0	16	77	90	- 3	12	4	.24
25 B	.38	None	0	16	29	106	+ 61	18	0	.23
26 A	.68	Both	58	13	94	109	+ 2	22	7	.20
27 C	.31	None	0	24	67	117	+ 26	5	5	.15
28 D	.43	None	0	15	92	101	- 6	29	13	.19
Avg. '64	.28	----	17	15	76	98	+ 7	14	7	.21
Avg. '63	.35	----	7	14	63	94	+ 17	15	8	.25
Avg. '62	.46	----	10	13	68	106	+ 15	14	8	.23
Avg. '61	.53	----	0	13	75	105	+ 17	--	10	.29
Avg. '60	.58	----	0	13	71	96	+ 12	17	8	.27
Average - 5 Years	.44	----	--	14	71	100	+ 15	15	8	.25

See Pages 1 and 2 for explanation of terms and further information.