

EGG FARMERS OF VICTORIA



The Victorian Egg Marketing Board trading as Egg Farmers of Victoria

ATH/JV
Ref:26/362

15th May, 1986

Mr. K. Fitzgibbon,
Secretary,
Commercial Egg Producers Ass.,
STRATHFIELDSAYE 3551

Dear Mr. Fitzgibbon,

re Different ages for a quota hen

The South Australian Egg Industry Stabilization Act now requires that hens be subject to licence at 22 weeks of age rather than the more common 26 weeks of age.

The New South Wales Industry has been discussing the factors for and against a 22 week quotable age and has also been considering the arguments for and against 18 week quotable age.

I enclose a copy of the Discussion Paper prepared by the N.S.W. Egg Corporation for the information of your members.

The Victorian Board has no plans to move in this direction but the issue may arise in discussions between producers if other States are considering such a move.

Yours faithfully,
THE VICTORIAN EGG MARKETING BOARD

ALAN HARRISON
General Manager

2.4.66

18 WEEK QUOTA/LEVY AGE

The paper arises from an initial proposal to reduce the leviage age of birds from the current 26 weeks to 22 weeks. At meetings of producers in N.S.W. the prevailing opinion supported 18 weeks.

To assist in understanding the effects of changing from 26 weeks to an 18 week quota levy age, I have prepared 6 tables. All computations were completed on the basis of a farm that:-

1. Had a quota of 24,286 birds, with a 77% condition in licence. For states other than N.S.W., the equivalent is a quota of 18,700.
2. Culls birds at 74 weeks; and
3. Has average hen housed mortality of 1% each four weeks.

Table 1 shows a comparison between a 4+1 replacement pattern and a single age farm and the possible alternatives under an 18 week quota levy age.

In calculating the new Condition of Licence/Quota, I have used the 4+1 as a benchmark and held the quota and average pullets placed per year constant. The two single age options are based on what is possible with the quota and Condition as calculated from the 4+1 operations.

Tables 2 - 6 are the supporting detail for Table 1; they are presented in the order listed in Table 1.

The tables are only relevant for N.S.W., Victoria, Western Australia and Tasmania. I will cover the Queensland and South Australian situations in the text.

Producers Organization

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LEASING - where possible under State legislation

Most of the quota which is available for lease either comes from the pure single age farms or from farms who run a single age shed together with a multi-age operation in other sheds. As single age farms/shed operations will be able to fully utilise all quota at virtually all times, the amount of quota available for lease will be minimal. This will raise problems with producers who rely heavily on continuous leasing of birds.

While it may be possible to obtain leased quota to cover a short term problem, it will not be possible to run an entire farm on leased quota. Presumably because of the shortage, lease prices will increase - although it should be pointed out that when in N.S.W. quota prices fell significantly (ie to about \$12.00 a bird) and rose again (to \$18.00 a bird) there was virtually no change in lease prices.

For those who own quota purely as an investment, it would be likely that returns could be increased due to the shortage.

As leased quota represents a major proportion of the licensing workload in N.S.W., it is quite likely that the time spent in administering the licensing system both at Committee and staff levels, will be reduced.

INTERSTATE EFFECTS

If all states do not take up this proposal, then it places hatcheries of states that do take up this proposal in a difficult position. If N.S.W. went to an 18 week QLA and a farmer purchased started pullets at 22 weeks of age from a state that remained on a 26 week QLA, he has effectively increased his quota as the pullets aged 18-21 weeks inclusive would not need quota in the state of origin.

Also, where interstate producers wish to purchase started pullets aged in excess of 18 weeks from a N.S.W. hatchery then that hatchery would need quota.

Some states would be protected by current legislation; eg Queensland where importation of started pullets is banned.

INSPECTORIAL

Currently what everyone refers to as 26 weeks is really 6 calendar months. The 18 week proposal does not translate neatly into an even number of months. Lists would need to be distributed to producers to ensure the correct quota levels were maintained.

South Australia are operating on a 22 week Q.L.A. and don't appear to be experiencing any abnormal difficulties.

All pullets could not be delivered at exactly 18 weeks, therefore the started pullet grower would need to be covered for any pullets in excess of 18 weeks of age.

This could either be by quota in their own right; a temporary lease from the eventual owner, where available under state legislation, or a widening of the licensed place. This area needs to be thought through carefully.

Inspectors would be more easily able to differentiate between quota and non-quota birds. This should lead to less cheating and therefore a higher return for those farmers that are abiding by the system.

QUOTA PRICE

The change to 18 week levy age will release additional shed capacity which is currently held as excess idle time between flocks. Farmers who have already purchased quota to stock to shed capacity will now have a small amount of spare shedding. This in turn may lead to a short term increase in demand for quota and thus a short term increase in the price of that quota.

QUOTA/CONDITION OF LICENCE

Based on a 4+1 farm culling birds at 74 weeks of age, the Condition of Licence in N.S.W. would need to be approximately 93.8% instead of 77% if a two week cleanout period is allowed. If no cleanout period is allowed the figure would be 90.8%. In Victoria, Tasmania, and Western Australia the increase in quota numbers would be 21.8% and 17.9% respectively. The adjustment in South Australia would be approximately 10.9% and 8.9% respectively. The position in Queensland is unclear as there is not a specific age, however the adjustment would probably be similar to South Australia.

There is no practical advantage to the increase in the Quota/Condition but I believe it would have psychological advantages.

If the 18 week Q.L.A. were introduced throughout Australia, Agricultural Council would adjust quotas in all states to preserve the same production levels. In N.S.W.'s case, the quota numbers would stay the same but the Condition of Licence would be adjusted.

In the case of the A.C.T. it would be likely that no adjustment in quota levels would occur; this would yield an effective 18% quota cut. As N.S.W. receives all surplus from the A.C.T., exports would be reduced and the nett effect to N.S.W. farmers would be an increased return via lower levies of about 1.2 cents per dozen. As N.S.W. producers are aware of over-production in the A.C.T., achieving a reduction in this way may eliminate the possibility of a price war erupting in the A.C.T. along with the possible interstate effects.

MULTI-AGE FLOCKS/OVERLAPPING

The overlapping system forces a farmer to bring in flocks of the same size and at almost identical intervals. The less the number of flocks the more the flexibility there is on the commencement date of any one flock. Any farm running a 5+1 or more will have little or no flexibility; this can lead to over quota situations if the hatchery or processor doesn't perform to expectations.

Replacement patterns of 4+1 and less, waste shed capacity but over this the separation between replacement flocks causes disease problems. The quota system under a 26 week levy age catches the farmer in a 'no-win' situation; the result is a compromise.

Under the 18 week levy age overlapping is not necessary and the main consideration is the number of flocks per cycle that is desirable. Each flock when brought in will cause the farm to come up to 100% occupancy; it is therefore beneficial if flocks are approximately evenly spaced but a variation of a few weeks either way is quite acceptable.

The idle shed capacity can also be eliminated except for the time desired by the farmer for cleaning and resting the shed.

Another problem of multi-age farms is that sheds are quite often not the same size which creates programming difficulties. This often leads to multi-age sheds which, I understand, is not good practise. Under the 18 week levy age flocks do not need to be the same size and therefore a farm with 5 different sized sheds can run as effectively as a farm of the same capacity but with sheds that are all the same size.

SINGLE AGE

It is generally agreed that a single age farm will have less problems with disease and will therefore have a higher production rate.

The overlapping system which has been induced by the 26 week levy age has made single age farms difficult to justify. For the same quota, a single age farm would produce 21% less eggs, but would be able to lease quota out where state legislation allows, for approximately 10 weeks in every 58 week cycle. If state legislation effectively prohibits leasing, then single age farms are almost impossible to justify.

In essence while the quota is attached to the farm the production is about 4.6% down, assuming identical hen housed production. However, while the quota is being leased out production is 100% down; the problem being that the value of the lease doesn't approach the contribution to overheads that would have been realised had the quota been kept on the farm.

Under the 18 week levy age, production would be down by 5.7% but with quota available to lease only 2 weeks out of 58, single age farms would therefore be much more viable.

Recently there has been a request from the Animal Production Committee which was endorsed by the Standing Committee on Agriculture:

"That APC request State Departments of Agriculture and State Egg Marketing authorities to examine the feasibility of introducing flexible hen quota/levy systems that will facilitate the adoption of single-aged flocks and/or farms, which in turn, will improve the health, welfare and efficiency of laying hens."

The proposed 18 week QLA effectively deals with this request.

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MOULTING

This practise has been virtually eliminated firstly because of the quota system and secondly because of levels that relate to birds or quota, rather than dozens produced.

Currently moulted flocks need to be either run as single age or on a fixed multi-age replacement pattern; either way quota occupancy is reduced.

The quota levy, because it is charged on the quota represents a higher rate per dozen for moulted flocks as they produce a lower rate of lay on average as compared to pullet flocks, and also as they are virtually out of production for four weeks during the moult. With levies being reduced the cost penalty is also being reduced.

With an 18 week Q.L.A. the out of production period is acceptable as it represents approximately the same proportion to the moult production period, as does out of production period of the pullet flock to the pullet flock production period.

Quota occupancy is still a problem but as overlapping is not available under an 18 week Q.L.A., flocks can be moulted on an ad-hoc basis to suit a particular purpose. It is therefore not necessary to have all moulted flocks and the impact on quota occupancy is thus minimised, and almost certainly outweighed by the benefits of the particular reason for the moult. eg, looking for a higher percentage of large eggs from December through to March, at the higher prices paid through this time because of the relative shortage (based on N.S.W. experience and practise).

SEASONAL PRODUCTION

Most states have opted for seasonal quota cuts to solve this problem. As I understand it, the advice generally given by the Department of Agriculture to farmers in states with seasonal quota cuts and returns is to cull early. This action has a severe cost penalty and is one area where Economists tend to attack regulated industries.

Farmers, of course, resist culling early and it would appear that a number operate replacement patterns that depend on unequal flock sizes and a levy cycle of 52 weeks. To date I have yet to see or have described to me a replacement pattern that is stable; ie one that can be repeated year in and year out. It would appear that these replacement patterns tend to work for a number of years but eventually decay, until a realignment needs to take place either by way of early culling, or moulting.

At worst, seasonal cuts cause substantial and regular early culling; at best the replacement patterns are difficult to manage on an on-going basis.

As overlapping ceases under the 18 week quota/levy age system, it is possible to have say 5 flocks on the farm staged so that peak production is February through July. It is just a matter of bringing each flock in with say, a four week gap and then having a longer period between the 5th flock and the 1st flock of the next cycle.

Grade shortages could also be reduced by ad-hoc moulting of flocks based on the expected surplus or shortage of grades.

Cost of production should be able to be reduced by the more flexible approach to management, afforded by the change to the 18 week quota levy age.

CONSIGNOR VS PRODUCER AGENT

The Producer Agent needs to supply his market in the same way the Marketing body does. Currently the P.A. sells all the eggs that he can and submits those not required by his market, to the Marketing body. The Marketing body therefore is more severely short of both eggs in total and specific grades than the P.A. will ever be.

While the P.A. has an interest in producing to his market requirements, there is a limit to how far he can go with moulting or staging of flocks even under an 18 week levy age; this limitation being brought about by the small number of flocks he has to manipulate to achieve a desired result.

The consignor as an individual does not have the market as a direct problem.

eg: a consignor could run a single age flock to peak total egg production March through to July, when egg prices would generally be higher. He could then moult that flock in say, late October, to produce large eggs when they are generally short.

This manipulation if carefully managed could produce a higher net return than that which would be available to the P.A., at the same time helping to solve one of the problems of all Marketing bodies.

PHASE IN PERIOD

Changeover to the 18 week quota age cannot be completed in a short period. Three examples will illustrate the point:-

a) Single Age Farm (Tables 3 & 5)

A farmer whose birds were between 18 and 26 weeks of age when the change takes effect, would have leased his quota (where allowed by legislation) and would therefore be totally unlicensed. If the birds were 26 weeks or more then he would have spare quota. Depending on the age of the birds and based on a state with a quota age of 26 weeks, anywhere from 18% to 28% could be available to lease.

b) Multi-Age Farm [Table 2 & 4)

As a new flock became 18 weeks of age then approximately 16% of the oldest flock would need to be culled. As can be seen from the tables, flock sizes need to be reduced by 167 birds and the average separation between flocks brought to 11.6 weeks instead of 12 weeks.

c) Farms Running on Leased Quota

Quota available for lease would reduce substantially and this may lead to these farms having birds committed but without available quota. The main source of leased quota after a change to 18 week QLA would appear to be people who own quota purely for investment. Due to the relative shortage lease costs would almost certainly increase.

There doesn't appear to be a simple answer to the phase-in period. If say, 14 months notice were given, then:-

- A) Single age farmers could not increase their orders on the next flock unless they were able to lease quota; they would however have sufficient time to ensure that they did not lease out their quota while the birds were under 26 weeks of age.
- B) Multi-age farms would be reluctant to decrease orders while under the 26 week levy system as they would be imposing a quota cut on themselves. It would not be possible to shorten the cycle time during the phase-in as they would become over quota for a few weeks as each new flock became leviable.
- C) Farms running by virtue of leased quota would have the longest possible time to acquire quota.

In summary, it would appear that multi-age farms would be best served by short notice, farms on a leased basis by long notice and single age farms by a moderate amount of notice.

The proposal if adopted by the N.S.W. Egg Corporation and the N.S.W. Poultry Farmer Licensing Committee, should be circulated to the members of the Australian Egg Marketing Council. It would be desirable for the A.E.M.C. to consider the proposal at its April meeting.

G.L. FORSTER
DIRECTOR PLANNING & ADMINISTRATION

Attach:

GLF:CD
24.2.86

NEW SOUTH WALES EGG CORPORATION

TABLE 1

FARM COMPARISON

BASED ON QUOTA OF 24,286

<u>REPLACE PATTERN</u>	<u>LEVY AGE</u>	<u>SEPARATION BETWEEN FLOCKS</u>	<u>MAX. QUOTA BIRDS</u>	<u>FLOCK SIZE</u>	<u>CONDITION ON LICENCE</u>	<u>AVERAGE PULLETS / YR</u>
4 + 1	26	4	18,700	5,000	77%	21,667
SINGLE AGE	26	2	18,700	19,082	77%	17,108
4 + 1	18	2	22,789	4,833	93.8%	21,667
4 + 1	18	0	22,050	4,667	90.8%	21,667
SINGLE AGE	18	2	22,789	22,789	93.8%	20,432

TABLE 2

SCHEDULE A - 20 VILDS

GLF: CD
24.2.86

flock 1		flock 2		flock 3		flock 4		flock 5		tot levy birds	
age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds		
0	0	0 62	4,450	4,450 50	4,600	4,600 38	4,750	4,750 26	4,900	4,900	18,700
0	0	0 63	4,438	4,438 51	4,588	4,588 39	4,738	4,738 27	4,888	4,888	18,650
0	0	0 64	4,425	4,425 52	4,575	4,575 40	4,725	4,725 28	4,875	4,875	18,600
0	0	0 65	4,413	4,413 53	4,563	4,563 41	4,713	4,713 29	4,863	4,863	18,550
18	5,000	0 66	4,400	4,400 54	4,550	4,550 42	4,700	4,700 30	4,850	4,850	18,500
19	4,988	0 67	4,388	4,388 55	4,538	4,538 43	4,688	4,688 31	4,838	4,838	18,450
20	4,975	0 68	4,375	4,375 56	4,525	4,525 44	4,675	4,675 32	4,825	4,825	18,400
21	4,963	0 69	4,363	4,363 57	4,513	4,513 45	4,663	4,663 33	4,813	4,813	18,350
22	4,950	0 70	4,350	4,350 58	4,500	4,500 46	4,650	4,650 34	4,800	4,800	18,300
23	4,938	0 71	4,338	4,338 59	4,488	4,488 47	4,638	4,638 35	4,788	4,788	18,250
24	4,925	0 72	4,325	4,325 60	4,475	4,475 48	4,625	4,625 36	4,775	4,775	18,200
25	4,913	0 73	4,313	4,313 61	4,463	4,463 49	4,613	4,613 37	4,763	4,763	18,150
26	4,900	4,900 0	0	0 62	4,450	4,450 50	4,600	4,600 38	4,750	4,750	18,700
27	4,888	4,888 0	0	0 63	4,438	4,438 51	4,588	4,588 39	4,738	4,738	18,650
28	4,875	4,875 0	0	0 64	4,425	4,425 52	4,575	4,575 40	4,725	4,725	18,600
29	4,863	4,863 0	0	0 65	4,413	4,413 53	4,563	4,563 41	4,713	4,713	18,550
30	4,850	4,850 18	5,000	0 66	4,400	4,400 54	4,550	4,550 42	4,700	4,700	18,500
31	4,838	4,838 19	4,988	0 67	4,388	4,388 55	4,538	4,538 43	4,688	4,688	18,450
32	4,825	4,825 20	4,975	0 68	4,375	4,375 56	4,525	4,525 44	4,675	4,675	18,400
33	4,813	4,813 21	4,963	0 69	4,363	4,363 57	4,513	4,513 45	4,663	4,663	18,350
34	4,800	4,800 22	4,950	0 70	4,350	4,350 58	4,500	4,500 46	4,650	4,650	18,300
35	4,788	4,788 23	4,938	0 71	4,338	4,338 59	4,488	4,488 47	4,638	4,638	18,250
	4,775	4,775 24	4,925	0 72	4,325	4,325 60	4,475	4,475 48	4,625	4,625	18,200
37	4,763	4,763 25	4,913	0 73	4,313	4,313 61	4,463	4,463 49	4,613	4,613	18,150
38	4,750	4,750 26	4,900	4,900 0	0	0 62	4,450	4,450 50	4,600	4,600	18,700
39	4,738	4,738 27	4,888	4,888 0	0	0 63	4,438	4,438 51	4,588	4,588	18,650
40	4,725	4,725 28	4,875	4,875 0	0	0 64	4,425	4,425 52	4,575	4,575	18,600
41	4,713	4,713 29	4,863	4,863 0	0	0 65	4,413	4,413 53	4,563	4,563	18,550
42	4,700	4,700 30	4,850	4,850 18	5,000	0 66	4,400	4,400 54	4,550	4,550	18,500
43	4,688	4,688 31	4,838	4,838 19	4,988	0 67	4,388	4,388 55	4,538	4,538	18,450
44	4,675	4,675 32	4,825	4,825 20	4,975	0 68	4,375	4,375 56	4,525	4,525	18,400
45	4,663	4,663 33	4,813	4,813 21	4,963	0 69	4,363	4,363 57	4,513	4,513	18,350
46	4,650	4,650 34	4,800	4,800 22	4,950	0 70	4,350	4,350 58	4,500	4,500	18,300
47	4,638	4,638 35	4,788	4,788 23	4,938	0 71	4,338	4,338 59	4,488	4,488	18,250
48	4,625	4,625 36	4,775	4,775 24	4,925	0 72	4,325	4,325 60	4,475	4,475	18,200
49	4,613	4,613 37	4,763	4,763 25	4,913	0 73	4,313	4,313 61	4,463	4,463	18,150
50	4,600	4,600 38	4,750	4,750 26	4,900	4,900 0	0	0 62	4,450	4,450	18,700
51	4,588	4,588 39	4,738	4,738 27	4,888	4,888 0	0	0 63	4,438	4,438	18,650
52	4,575	4,575 40	4,725	4,725 28	4,875	4,875 0	0	0 64	4,425	4,425	18,600
53	4,563	4,563 41	4,713	4,713 29	4,863	4,863 0	0	0 65	4,413	4,413	18,550
54	4,550	4,550 42	4,700	4,700 30	4,850	4,850 18	5,000	0 66	4,400	4,400	18,500
55	4,538	4,538 43	4,688	4,688 31	4,838	4,838 19	4,988	0 67	4,388	4,388	18,450
	4,525	4,525 44	4,675	4,675 32	4,825	4,825 20	4,975	0 68	4,375	4,375	18,400
58	4,513	4,513 45	4,663	4,663 33	4,813	4,813 21	4,963	0 69	4,363	4,363	18,350
59	4,500	4,500 46	4,650	4,650 34	4,800	4,800 22	4,950	0 70	4,350	4,350	18,300
60	4,488	4,488 47	4,638	4,638 35	4,788	4,788 23	4,938	0 71	4,338	4,338	18,250
61	4,475	4,475 48	4,625	4,625 36	4,775	4,775 24	4,925	0 72	4,325	4,325	18,200
62	4,463	4,463 49	4,613	4,613 37	4,763	4,763 25	4,913	0 73	4,313	4,313	18,150
63	4,450	4,450 50	4,600	4,600 38	4,750	4,750 26	4,900	4,900 0	0	0	18,700
64	4,438	4,438 51	4,588	4,588 39	4,738	4,738 27	4,888	4,888 0	0	0	18,650
65	4,425	4,425 52	4,575	4,575 40	4,725	4,725 28	4,875	4,875 0	0	0	18,600
66	4,413	4,413 53	4,563	4,563 41	4,713	4,713 29	4,863	4,863 0	0	0	18,550
67	4,400	4,400 54	4,550	4,550 42	4,700	4,700 30	4,850	4,850 18	5,000	0	18,500
68	4,388	4,388 55	4,538	4,538 43	4,688	4,688 31	4,838	4,838 19	4,988	0	18,450
69	4,375	4,375 56	4,525	4,525 44	4,675	4,675 32	4,825	4,825 20	4,975	0	18,400
	4,363	4,363 57	4,513	4,513 45	4,663	4,663 33	4,813	4,813 21	4,963	0	18,350
70	4,350	4,350 58	4,500	4,500 46	4,650	4,650 34	4,800	4,800 22	4,950	0	18,300
71	4,338	4,338 59	4,488	4,488 47	4,638	4,638 35	4,788	4,788 23	4,938	0	18,250
72	4,325	4,325 60	4,475	4,475 48	4,625	4,625 36	4,775	4,775 24	4,925	0	18,200
73	4,313	4,313 61	4,463	4,463 49	4,613	4,613 37	4,763	4,763 25	4,913	0	18,150

SINGLE AGE
LIVABLE 26 WEEKS

TABLE 3

GLF:CD
24.2.86

age	birds	lv birds
0	0	0
0	0	0
18	19,082	0
19	19,034	0
20	18,986	0
21	18,939	0
22	18,891	0
23	18,843	0
24	18,795	0
25	18,748	0
26	18,700	18,700
27	18,652	18,652
28	18,605	18,605
29	18,557	18,557
30	18,509	18,509
31	18,461	18,461
32	18,414	18,414
33	18,366	18,366
34	18,318	18,318
35	18,271	18,271
6	18,223	18,223
37	18,175	18,175
38	18,128	18,128
39	18,080	18,080
40	18,032	18,032
41	17,984	17,984
42	17,937	17,937
43	17,889	17,889
44	17,841	17,841
45	17,794	17,794
46	17,746	17,746
47	17,698	17,698
48	17,651	17,651
49	17,603	17,603
50	17,555	17,555
51	17,507	17,507
52	17,460	17,460
53	17,412	17,412
54	17,364	17,364
55	17,317	17,317
56	17,269	17,269
57	17,221	17,221
58	17,173	17,173
59	17,126	17,126
60	17,078	17,078
61	17,030	17,030
62	16,983	16,983
63	16,935	16,935
64	16,887	16,887
65	16,840	16,840
66	16,792	16,792
67	16,744	16,744
68	16,696	16,696
69	16,649	16,649
70	16,601	16,601
71	16,553	16,553
72	16,506	16,506
73	16,458	16,458

TABLE 4

4+1 YEAR AGE ELIGIBLE 18 WEEKS

GLF: CD
24.2.86

flock 1		flock 2		flock 3		flock 4		flock 5		tot levy birds
age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds	
0	0	62	4,302	51	4,435	39	4,580	28	4,713	18,028
0	0	63	4,290	52	4,423	40	4,568	29	4,700	17,980
18	4,833	64	4,278	53	4,410	41	4,555	30	4,688	22,765
19	4,821	65	4,265	54	4,398	42	4,543	31	4,676	22,705
20	4,809	66	4,253	55	4,386	43	4,531	32	4,664	22,644
21	4,797	67	4,241	56	4,374	44	4,519	33	4,652	22,584
22	4,785	68	4,229	57	4,362	45	4,507	34	4,640	22,523
23	4,773	69	4,217	58	4,350	46	4,495	35	4,628	22,463
24	4,761	70	4,205	59	4,338	47	4,483	36	4,616	22,403
25	4,749	71	4,193	60	4,326	48	4,471	37	4,604	22,342
26	4,737	72	4,181	61	4,314	49	4,459	38	4,592	22,282
27	4,725	73	4,169	62	4,302	50	4,447	39	4,580	22,221
28	4,713	0	0	63	4,290	51	4,435	40	4,568	18,004
29	4,700	0	0	64	4,278	52	4,423	41	4,555	17,956
30	4,688	18	4,833	65	4,265	53	4,410	42	4,543	22,741
31	4,676	19	4,821	66	4,253	54	4,398	43	4,531	22,680
32	4,664	20	4,809	67	4,241	55	4,386	44	4,519	22,620
33	4,652	21	4,797	68	4,229	56	4,374	45	4,507	22,560
34	4,640	22	4,785	69	4,217	57	4,362	46	4,495	22,499
35	4,628	23	4,773	70	4,205	58	4,350	47	4,483	22,439
36	4,616	24	4,761	71	4,193	59	4,338	48	4,471	22,378
37	4,604	25	4,749	72	4,181	60	4,326	49	4,459	22,318
38	4,592	26	4,737	73	4,169	61	4,314	50	4,447	22,258
39	4,580	27	4,725	0	0	62	4,302	51	4,435	18,040
40	4,568	28	4,713	0	0	63	4,290	52	4,423	17,992
41	4,555	29	4,700	18	4,833	64	4,278	53	4,410	22,777
42	4,543	30	4,688	19	4,821	65	4,265	54	4,398	22,717
43	4,531	31	4,676	20	4,809	66	4,253	55	4,386	22,656
44	4,519	32	4,664	21	4,797	67	4,241	56	4,374	22,596
45	4,507	33	4,652	22	4,785	68	4,229	57	4,362	22,535
46	4,495	34	4,640	23	4,773	69	4,217	58	4,350	22,475
47	4,483	35	4,628	24	4,761	70	4,205	59	4,338	22,415
48	4,471	36	4,616	25	4,749	71	4,193	60	4,326	22,354
49	4,459	37	4,604	26	4,737	72	4,181	61	4,314	22,294
50	4,447	38	4,592	27	4,725	73	4,169	62	4,302	22,233
51	4,435	39	4,580	28	4,713	0	0	63	4,290	18,016
52	4,423	40	4,568	29	4,700	0	0	64	4,278	17,968
53	4,410	41	4,555	30	4,688	18	4,833	65	4,265	22,753
54	4,398	42	4,543	31	4,676	19	4,821	66	4,253	22,693
55	4,386	43	4,531	32	4,664	20	4,809	67	4,241	22,632
56	4,374	44	4,519	33	4,652	21	4,797	68	4,229	22,572
57	4,362	45	4,507	34	4,640	22	4,785	69	4,217	22,511
58	4,350	46	4,495	35	4,628	23	4,773	70	4,205	22,451
59	4,338	47	4,483	36	4,616	24	4,761	71	4,193	22,390
60	4,326	48	4,471	37	4,604	25	4,749	72	4,181	22,330
61	4,314	49	4,459	38	4,592	26	4,737	73	4,169	22,270
62	4,302	50	4,447	39	4,580	27	4,725	0	0	18,053
63	4,290	51	4,435	40	4,568	28	4,713	0	0	18,004
64	4,278	52	4,423	41	4,555	29	4,700	18	4,833	22,789
65	4,265	53	4,410	42	4,543	30	4,688	19	4,821	22,729
66	4,253	54	4,398	43	4,531	31	4,676	20	4,809	22,668
67	4,241	55	4,386	44	4,519	32	4,664	21	4,797	22,608
68	4,229	56	4,374	45	4,507	33	4,652	22	4,785	22,548
69	4,217	57	4,362	46	4,495	34	4,640	23	4,773	22,487
70	4,205	58	4,350	47	4,483	35	4,628	24	4,761	22,427
71	4,193	59	4,338	48	4,471	36	4,616	25	4,749	22,366
72	4,181	60	4,326	49	4,459	37	4,604	26	4,737	22,306
73	4,169	61	4,314	50	4,447	38	4,592	27	4,725	22,245

TABLE 5

4-1 MULTIPLE LEVYABLE 18 WEEKS*

GLF: CD
24.2.86

* (no cleanout period)

flock 1		flock 2		flock 3		flock 4		flock 5		tot levy birds
age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds	age birds	lv birds	
18	4,667	62	4,153	51	4,282	40	4,410	29	4,538	22,050
19	4,655	63	4,142	52	4,270	41	4,398	30	4,527	21,992
20	4,643	64	4,130	53	4,258	42	4,387	31	4,515	21,933
21	4,632	65	4,118	54	4,247	43	4,375	32	4,503	21,875
22	4,620	66	4,107	55	4,235	44	4,363	33	4,492	21,817
23	4,608	67	4,095	56	4,223	45	4,352	34	4,480	21,758
24	4,597	68	4,083	57	4,212	46	4,340	35	4,468	21,700
25	4,585	69	4,072	58	4,200	47	4,328	36	4,457	21,642
26	4,573	70	4,060	59	4,188	48	4,317	37	4,445	21,583
27	4,562	71	4,048	60	4,177	49	4,305	38	4,433	21,525
28	4,550	72	4,037	61	4,165	50	4,293	39	4,422	21,467
29	4,538	73	4,025	62	4,153	51	4,282	40	4,410	21,408
30	4,527	18	4,667	63	4,142	52	4,270	41	4,398	22,003
31	4,515	19	4,655	64	4,130	53	4,258	42	4,387	21,945
32	4,503	20	4,643	65	4,118	54	4,247	43	4,375	21,887
33	4,492	21	4,632	66	4,107	55	4,235	44	4,363	21,828
34	4,480	22	4,620	67	4,095	56	4,223	45	4,352	21,770
35	4,468	23	4,608	68	4,083	57	4,212	46	4,340	21,712
36	4,457	24	4,597	69	4,072	58	4,200	47	4,328	21,653
37	4,445	25	4,585	70	4,060	59	4,188	48	4,317	21,595
	4,433	26	4,573	71	4,048	60	4,177	49	4,305	21,537
39	4,422	27	4,562	72	4,037	61	4,165	50	4,293	21,478
40	4,410	28	4,550	73	4,025	62	4,153	51	4,282	21,420
41	4,398	29	4,538	18	4,667	63	4,142	52	4,270	22,015
42	4,387	30	4,527	19	4,655	64	4,130	53	4,258	21,957
43	4,375	31	4,515	20	4,643	65	4,118	54	4,247	21,898
44	4,363	32	4,503	21	4,632	66	4,107	55	4,235	21,840
45	4,352	33	4,492	22	4,620	67	4,095	56	4,223	21,782
46	4,340	34	4,480	23	4,608	68	4,083	57	4,212	21,723
47	4,328	35	4,468	24	4,597	69	4,072	58	4,200	21,665
48	4,317	36	4,457	25	4,585	70	4,060	59	4,188	21,607
49	4,305	37	4,445	26	4,573	71	4,048	60	4,177	21,548
50	4,293	38	4,433	27	4,562	72	4,037	61	4,165	21,490
51	4,282	39	4,422	28	4,550	73	4,025	62	4,153	21,432
52	4,270	40	4,410	29	4,538	18	4,667	63	4,142	22,027
53	4,258	41	4,398	30	4,527	19	4,655	64	4,130	21,968
54	4,247	42	4,387	31	4,515	20	4,643	65	4,118	21,910
55	4,235	43	4,375	32	4,503	21	4,632	66	4,107	21,852
56	4,223	44	4,363	33	4,492	22	4,620	67	4,095	21,793
57	4,212	45	4,352	34	4,480	23	4,608	68	4,083	21,735
	4,200	46	4,340	35	4,468	24	4,597	69	4,072	21,677
59	4,188	47	4,328	36	4,457	25	4,585	70	4,060	21,618
60	4,177	48	4,317	37	4,445	26	4,573	71	4,048	21,560
61	4,165	49	4,305	38	4,433	27	4,562	72	4,037	21,502
62	4,153	50	4,293	39	4,422	28	4,550	73	4,025	21,443
63	4,142	51	4,282	40	4,410	29	4,538	18	4,667	22,038
64	4,130	52	4,270	41	4,398	30	4,527	19	4,655	21,980
65	4,118	53	4,258	42	4,387	31	4,515	20	4,643	21,922
66	4,107	54	4,247	43	4,375	32	4,503	21	4,632	21,863
67	4,095	55	4,235	44	4,363	33	4,492	22	4,620	21,805
68	4,083	56	4,223	45	4,352	34	4,480	23	4,608	21,747
69	4,072	57	4,212	46	4,340	35	4,468	24	4,597	21,688
70	4,060	58	4,200	47	4,328	36	4,457	25	4,585	21,630
71	4,048	59	4,188	48	4,317	37	4,445	26	4,573	21,572
72	4,037	60	4,177	49	4,305	38	4,433	27	4,562	21,513
73	4,025	61	4,165	50	4,293	39	4,422	28	4,550	21,455