



GROGEL PLUS SAVES HATCHLINGS IN TRANSIT

No. 321

We've reviewed our field tests of **GROGEL PLUS** (GG+) and consolidated the results by species. While the total number of birds is limited, the results are striking!

These experiments were done to simulate transport times and conditions from hatchery to the grow-out farm up to 72 hours after hatch. Neither food nor water was provided. However, it is the case that when food and water are provided early, **GROGEL PLUS** starts hatchlings off even faster, and further reduces first-week mortality.

The value of birds saved over their first 72 hours of life ("Benefit") exceeds the "Cost" of GROGEL PLUS:

Benefit : Cost Ratio*

- TURKEY HENS: 2.09
- LAYERS: 1.58

	TURKEY HENS	LAYERS
CONTROL BIRDS	120	180
GROGEL PLUS BIRDS	120	180
CONTROL MORTALITY	4	5
GG+ MORTALITY	2	3
GG+ BIRDS SAVED	2	2
VALUE OF DAY OLD BIRD	\$0.75	\$0.85
VALUE SAVED BY GG+	\$1.50	\$1.70
TOTAL COST OF GG+	\$0.72	\$1.08
BENEFIT:COST RATIO	2.09	1.58

*Based on mortality data only

REDUCED WEIGHT LOSS

Dehydration is always a major problem. In addition to better survivability, **GROGEL PLUS** reduced 72-hour weight loss:

SUMMARY RESULTS BY SPECIES (GG+ VS CONTROL)				
SPECIES	AVERAGE WEIGHT LOSS PER CHICK/POULT			
	AVERAGE WEIGHT LOSS CONTROL GROUP (gm)	AVERAGE WEIGHT LOSS GG+ GROUP (gm)	DIFFERENCE (gm)	IMPROVEMENT (%)
TURKEY HENS	13.6	12.2	1.4	10.3%
LAYERS	10.8	8.4	2.4	22.2%



SUMMARY

GROGEL PLUS proves its worth both in terms of livability and weight. Results of the individual tests are presented below:

		MORTALITY after 72 hrs							
		CONTROL				GROGEL PLUS			
TEST NUMBER	SPECIES	TEST GROUP BIRDS (start)	TEST GROUP BIRDS (end)	BIRDS LOST	% loss	TEST GROUP BIRDS (start)	TEST GROUP BIRDS (end)	BIRDS LOST	% loss
L-186	LAYER	60	60	0	0.0%	60	59	1	1.7%
L-189	LAYER	60	57	3	5.0%	60	59	1	1.7%
L-190	LAYER	60	58	2	3.3%	60	59	1	1.7%
LAYER SUMMARY		180	175	5	2.8%	180	177	3	1.7%
T-184	TURKEY	60	56	4	6.7%	60	58	2	3.3%
T-187	TURKEY	60	60	0	0.0%	60	60	0	0.0%
TURKEY SUMMARY		120	116	4	3.3%	120	118	2	1.7%
TOTAL		300	291	9	3.0%	300	295	5	1.7%

		WEIGHT LOSS after 72 hrs							
		CONTROL				GROGEL PLUS			
TEST NUMBER	SPECIES	AVG WEIGHT gm (start)	AVG WEIGHT gm (end)	weight lost (gm)	weight lost (%)	AVG WEIGHT gm (start)	AVG WEIGHT gm (end)	weight lost (gm)	weight lost (%)
L-186	LAYER	36.9	26.9	10.0	27.1%	36.9	28.2	8.7	23.7%
L-189	LAYER	36.6	27.7	8.9	24.4%	36.3	27.7	8.6	23.7%
L-190	LAYER	37.2	23.9	13.3	35.8%	37.2	29.4	7.7	20.7%
LAYER AVERAGE SUMMARY		36.9	26.1	10.8	29.1%	36.8	28.4	8.4	22.7%
T-184	TURKEY	54.7	42.4	12.3	22.6%	57.4	46.0	11.3	19.8%
T-187	TURKEY	60.9	46.1	14.8	24.3%	60.9	47.8	13.1	21.6%
TURKEY AVERAGE SUMMARY		57.8	44.2	13.6	23.5%	59.2	46.9	12.2	20.7%

