

Animal Husbandry

How it effects feed performance

My name is Jeff May



- I work for Dawe's Laboratories.
- Dawe's formulates feed and manufactures vitamin and trace mineral packs
- A high priority as a Dawe's representative is to help the producer get the best performance from the animal we are feeding.

Animal Husbandry

- Pertains to the **methods** employed in **keeping** domestic **animals** in such a way as to **avoid** the effects of **disease** and to **increase** the **performance** of the animal so that the maintenance **system** is **sustainable** and **cost-effective** to provide an occupation for the owner.

Marketing



Water Supplements-

Dawe Ace

- Vitamins C and E
- Antioxidant vitamins
- Membrane and cartilage growth
- Fight heat and cold stress
- Stimulate immune system
- Especially important during weeks 1-3, and when birds are moved or weather stressed



Water Supplements- Streseez-Plus



- Multi vitamins, trace minerals and electrolytes
- Can be given any time a nutritional boost is required
- Especially when feed consumption is down due to high temperatures or other stressors

GroGel Plus

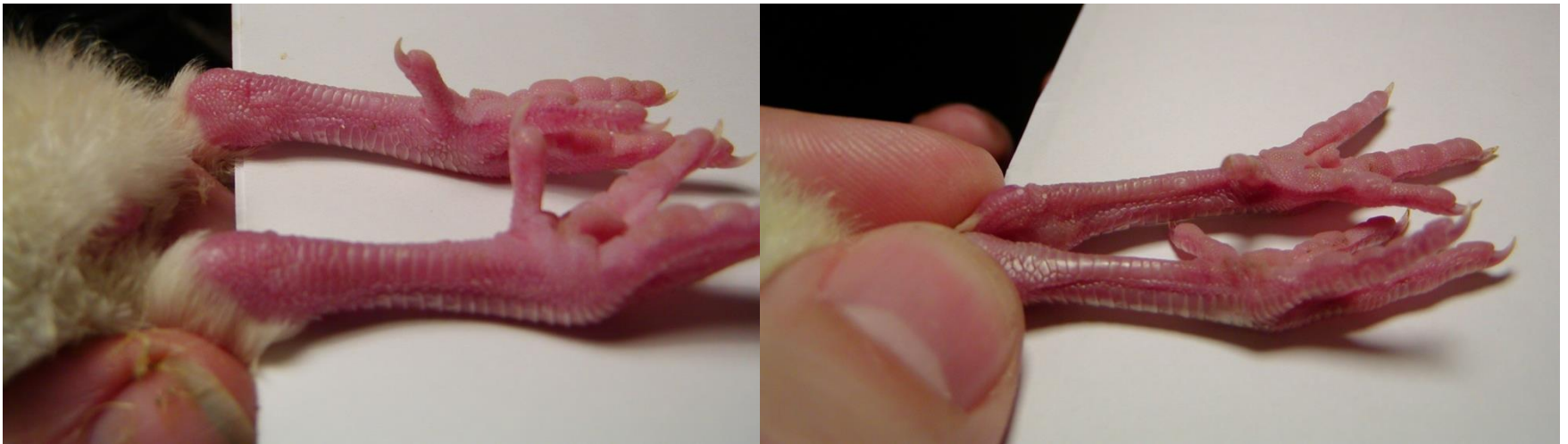
- Super Hydrating Gel, Concentrated Protein, Fat, Carbohydrates, Vitamins, Minerals and Beneficial Bacteria
- When mixed with water, it gels and forms shiny, green, bite sized particles



After mixing, scoop GGP onto a paper tray with some feed



Dehydration in Birds can be seen in the legs



Putting out GroGel Plus



The birds pick at the green color.



Here we see that they have eaten most of the gel but they will continue to pick at the green stain on the feed.





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GroGel Plus B (Dawe's) - 100 Doses

QC Part #: 540381

\$2.60

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GroGel Plus B (Dawe's) - 2,000 Doses

QC Part #: 540380

\$17.25

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Click on image to zoom

StressEEZ Plus (Dawe's)

Dawe's Labs , 2025

QC Supply Part #: 540384

Be the first to review this product

Shipping: Pharmaceutical Flat-Rate Shipping

Availability: In stock

\$3.25

Qty: [Add to Cart](#) [Add to Wishlist](#) [Add to Comparison](#)

StressEEZ Plus is a water dispersible source of vitamins, trace minerals and electrolytes. StressEEZ can be given at any time when livestock needs a little boost, or when feed consumption is down.

Description

Reviews

StressEEZ Plus is a water dispersible source of vitamins, trace minerals and electrolytes. StressEEZ can be given at any time when livestock needs a little boost, or when feed consumption is down and they may not be getting the nutrients they need.

For use in the drinking water of poultry, swine, calves, sheep, cattle and horses.

Day Old Bird

In the first day a bird must be given--

- Water
- Feed
- Regulated Temperatures to survive



Brooder Set up



- Water Tank
- Stove Height
- Feed Ring
- Adding Feed Later
- Well Lighted
- Clean Bedding
- Brooder Guard Ring
- Gro-Gel Plus
- Temperature stable before birds arrive

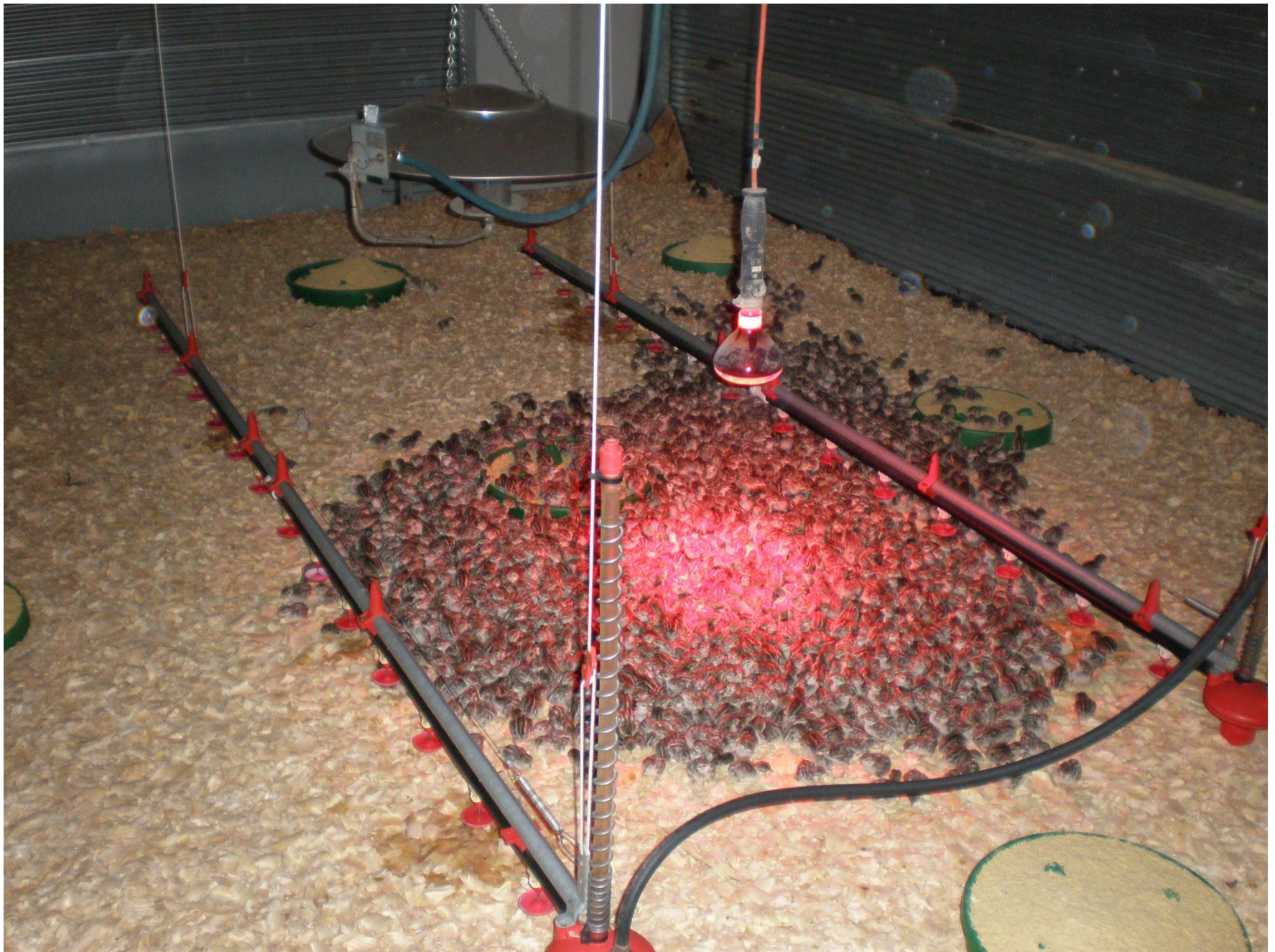
Look at the difference in these birds.

Picture on the right was taken after making adjustments in the ventilation.

Notice birds are spreading out more.

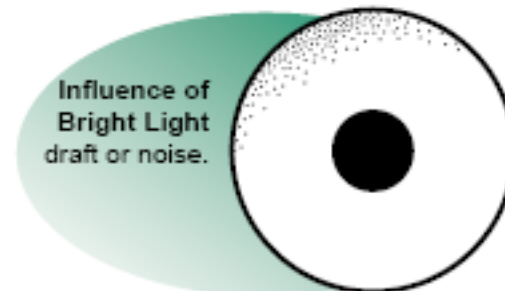
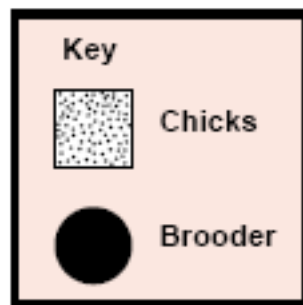
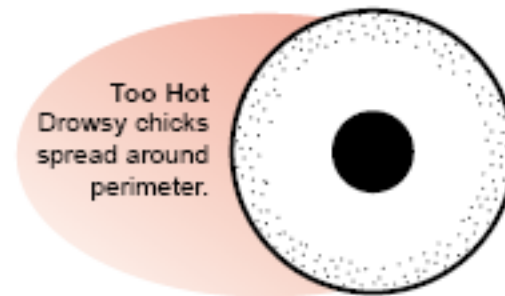
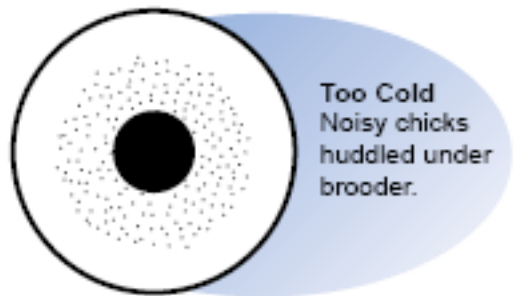
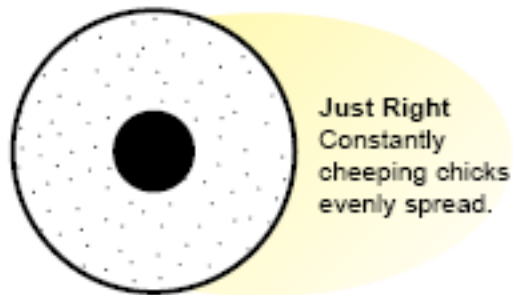
Therefore more likely to eat and drink.







Proper Brooding



Three day old flock that is spread nicely throughout barn.



A system to medicate water.

- Always provide fresh water to all birds
- And have a means of adding a substance for health benefits
 - Wormers in the fall
 - Antibiotics for infectious disease
 - Vitamins during high stress
 - Electrolytes in hot weather



Injection medication setup



The illustration on the right shows added plumbing so that a medicator pump can be added to the water line.



Ventilation

Fans

Minimum Ventilation

Definition:

The minimum amount of ventilation (air volume) required to maintain an adequate supply of oxygen while removing the waste products of growth and combustion from the environment. The requirements of a correctly operated minimum ventilation system include:

- The provision of oxygen to meet the birds metabolic demand.
- The control of relative humidity.
- The maintenance of good litter conditions.

This system should be independent of any temperature control system and works best if operated by a cycle timer with a temperature override.



Total Cycle Duration	Minimum ON/OFF	Maximum ON/OFF
30 Seconds	1 Second	29 Seconds
1 Minute	2 Seconds	58 Seconds
3 Minutes	6 Seconds	2 Minutes 54 Seconds
5 Minutes	10 Seconds	4 Minutes 50 Seconds
10 Minutes	20 Seconds	9 Minutes 40 Seconds
30 Minutes	1 Minute	29 Minutes
1 Hour	2 Minutes	58 Minutes
4 Hours	8 Minutes	3 Hours 52 Minutes



Minimum ventilation is done with a timer not a thermostat

The Timer:

The minimum ventilation system is calculated in two stages: first stage and second stage minimum ventilation.

A. First stage minimum ventilation:

- A 5-min. cycle period is preferred; the cycle time should not exceed 10 min. The minimum run time on the system should be at least 20% of the time.
- 10-min. cycle: 2 min. on, 8 min. off.
- 5-min. cycle: 1 min. on, 4 min. off.

Anytime the air quality begins to deteriorate, the run time is increased with the total cycle time remaining the same.

Fans should operate on a timer and not a thermostat.

These fans should be fixed volume and not variable speed.

The capacity of fans on the timer should be able to give a total air exchange every 8 min.

The number of fans required for an air exchange every 8 min. is as follows:

$(\text{House Volume (ft.3)}/8) \div \text{available Fan Capacity (ft.3/min or cfm)}$

50 by 40 foot building with 10 foot average ceiling = 20,000 ft.3

Divide by 8 = 2500 cfm.

GUARD MOUNTED DIRECT DRIVE EXHAUST FANS

Bolts directly
to the wall



Can be used
with or without
external shutter.

MOTORS . . . 120V, 1-phase totally enclosed
permanently lubricated - UL Listed

- 1/12 HP motor is 3-speed sleeve bearing shaded pole type
- 1/8 HP motor is 3-speed sleeve bearing permanent split capacitor
- 1/4 HP motor is 2-speed ball bearing permanent split capacitor

SWITCH Pull chain

CORD NONE - Junction box provided for direct wiring

BLADE Aluminum

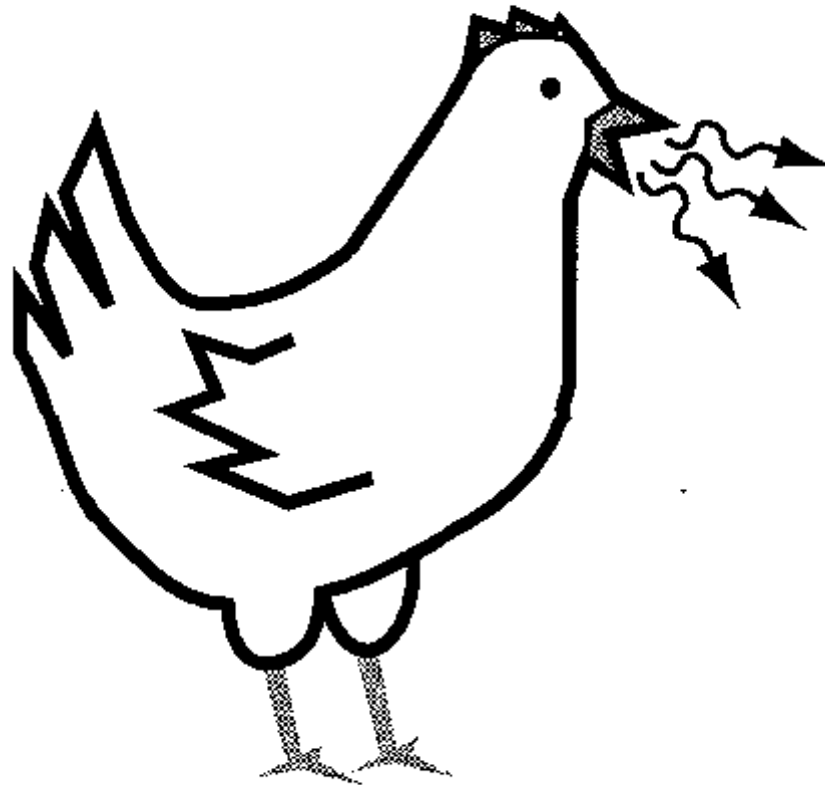
GUARDS Steel spiral wire

FAN DIMENSIONS (inches)		
SIZE	Width	Length
10"	12.60	12.60
12"	14.75	14.75
14"	16.78	16.78
16"	18.80	18.80
18"	21.00	21.00
20"	23.43	23.43
24"	27.93	27.93
30"	33.75	33.75

Note: Rough in
hole size is 1/2"
inch larger than
fan blade size.

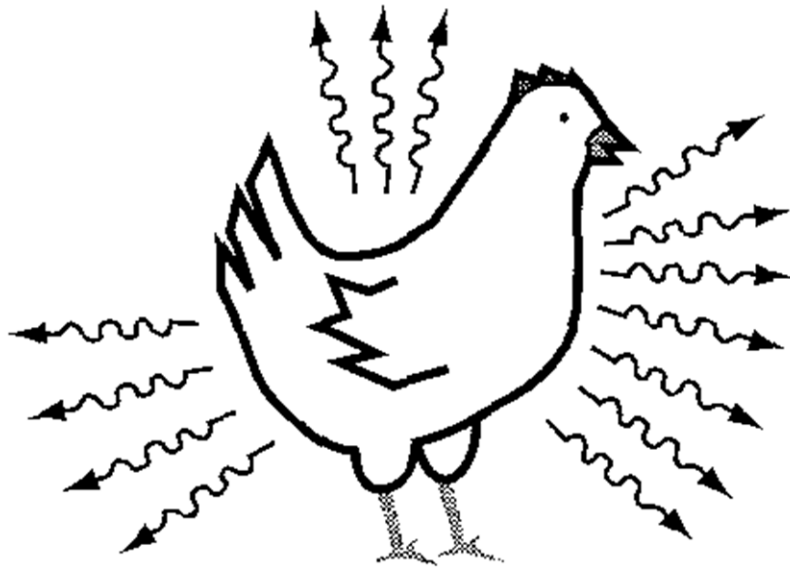
SIZE	UPC CODE 686334	MODEL NUMBER	HP	CFM			AMPS HIGH	WT. (LBS.)	LIST PRICE
				HIGH	MED	LOW			
10"	868952	CE 10-D	1/12	2280	1825	1325	1.0	11	211
12"	798501	CE 12-D	1/12	2750	2200	1600	1.1	12	238
14"	868969	CE 14-D	1/8	4475	3650	2490	2.0	17	254
16"	868976	CE 16-D	1/8	5110	4180	2840	2.1	18	265
18"	798495	CE 18-D	1/8	5750	4700	3200	2.2	19	292
20"	868983	CE 20-D	1/4	5850	-	4165	2.3	34	378
24"	798488	CE 24-D	1/4	6800	-	5000	2.5	38	421
30"	798471	CE 30-D	1/4	7900	-	6000	2.7	42	491

- At 70°F the bird will consume about twice as much water in weight as feed.
- As the temperature rises the feed intake decreases and the water increases.
- The as breathing birds expels water vapor and carbon dioxide



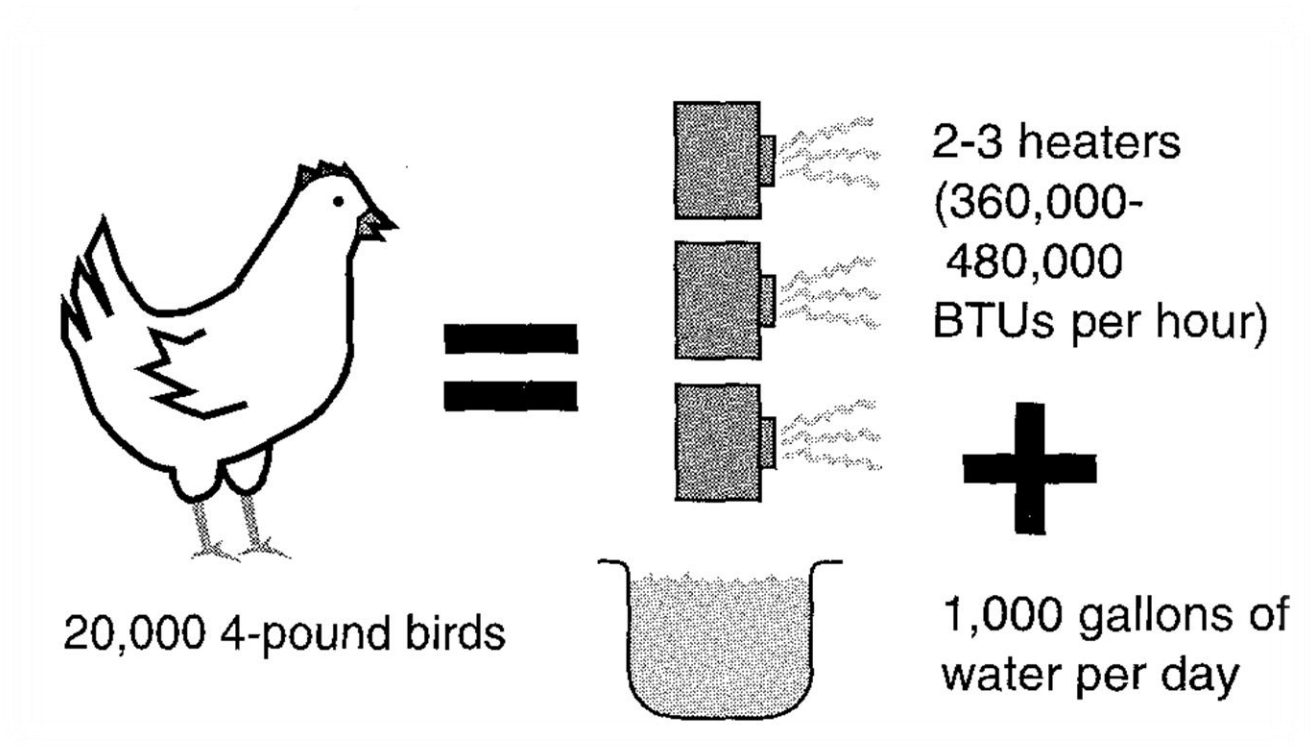
A broiler chicken can produce 45 Btu per hour and its body temperature is 103°F.

- Birds excrete heat, water vapor and manure.
- These waste need to be removed from the brooder building from the beginning or they will build up later.

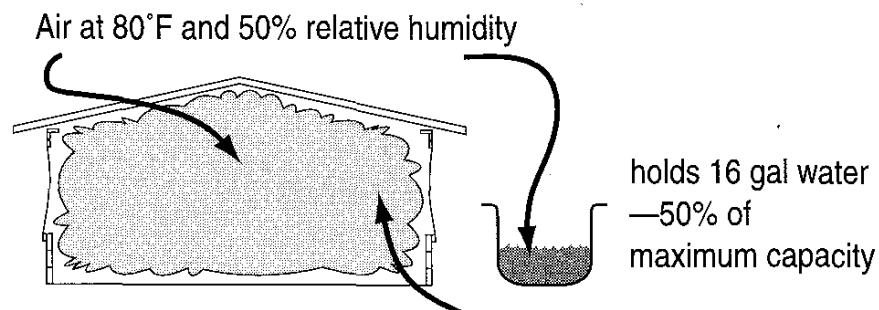
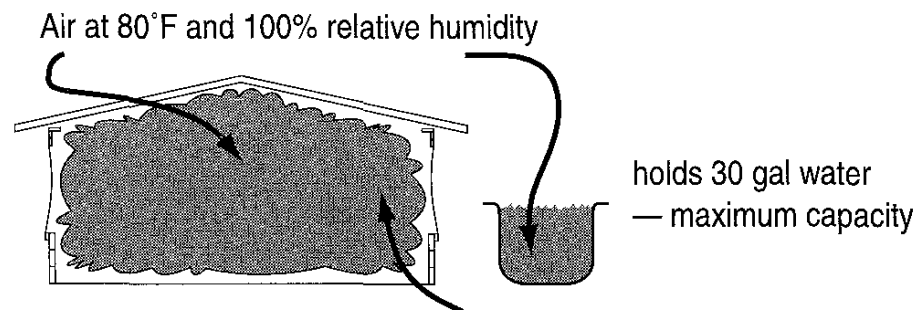
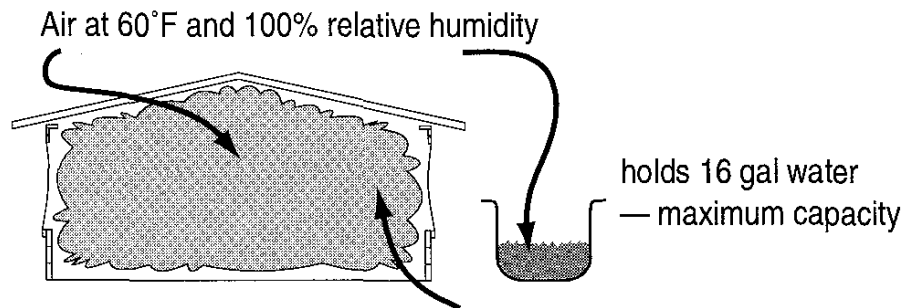


Once the bird is a few days old it is producing heat and water that must be carried away.

- Using the chicken model as a starting point.
- 6400 birds that weigh 2 ounces each equals 800 pounds of bird.
- That group of birds will produce 100 gallons of waste water each day.

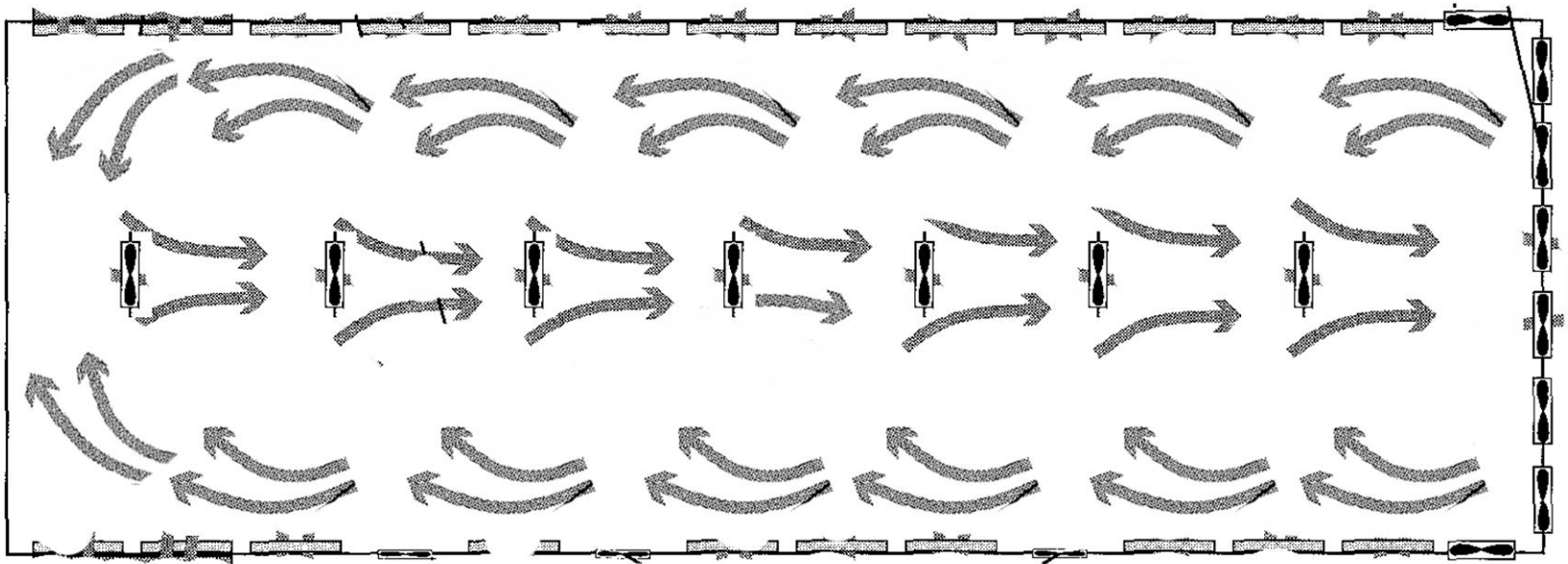


**For every 20-degree
rise in air temperature,
water-holding
capacity doubles**



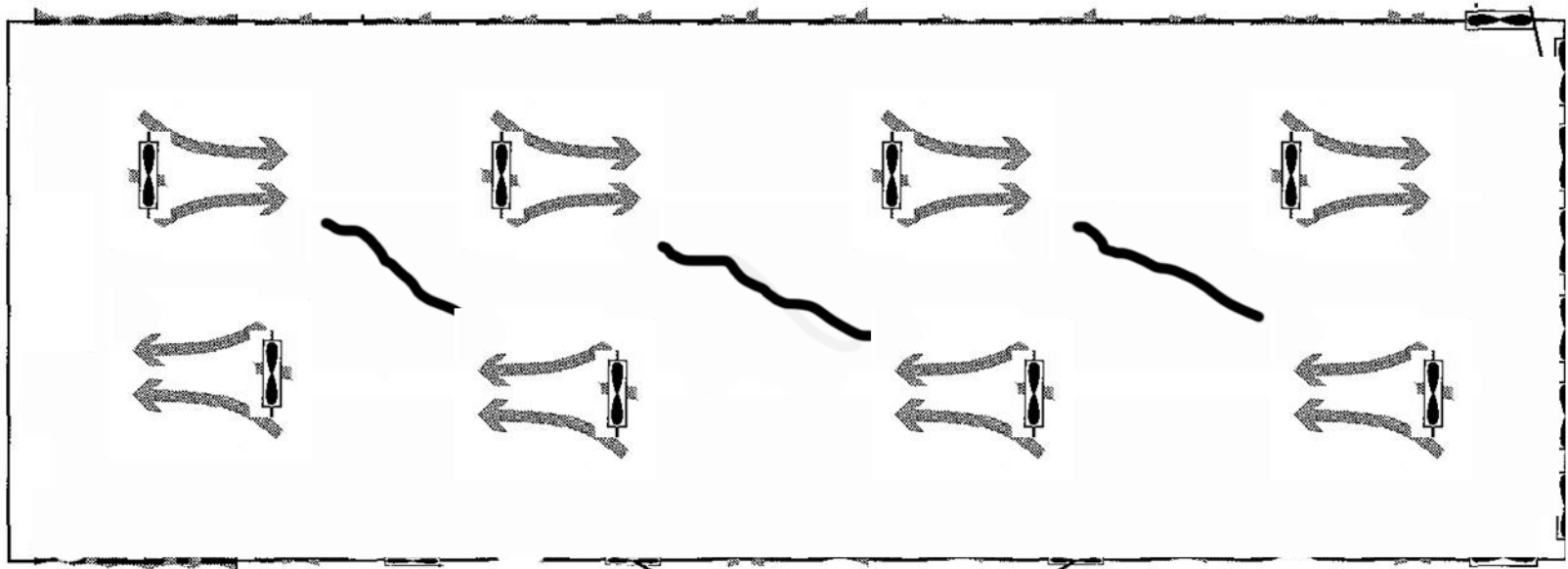
Horizontal Ventilation

- Is a means of pushing air from one end of the building to the other.
- Once air is at the end it is forced to go back.
- Using the side walls to direct the air back.
- Place fan near the center of the box
- Fans are placed about 50 feet apart.



With this fan set up you see that there is a conflict in the air flow between the fans.

- This conflict reduces air movement and waste electricity



Mortality Charts

Using Mortality Charts

- Sanitation
- Isolation
- Eradication
- Vaccination
- Medication

NEBRASKA TURKEY RANCH, INC. - MORTALITY RECORD

PLACED= 6/10/08	BROODER	BREED	FLOCK= N807	THIS BLDG=
HENS 38000	B3	100% Hybrid	Birds per confinement=	Buildings= C1, C2, C3

DOA's 13

HATCHERY= WPC

DATE	Tue	Wed	Thu	Fri	Sat	Sun	Mon	WEEK	TOTAL	FLOCK	%
6/10/08	2	46	RP 1pk/4g 49	RP 1pk/4g 51	RP 1pk/4g 30	RP 1pk/4g 96	RP 1pk/4g 69	WK 1	341	341	.94
6/17/08	8 60	9 14	RP .5pk/4g 11	RP .5pk/4g 15	RP .5pk/4g 12	RP .5pk/4g 16	RP .5pk/4g 6	WK 2	134	475	1.31
6/24/08	15 9	16 9	RP .5pk/4g 6	RP .5pk/4g 18	RP .5pk/4g 6	RP .5pk/4g 14	RP .5pk/4g 48	WK 3	110	585	1.62
7/1/08	22 34	23 78	24 152	25 347	26 705	27 210	28 104	WK 4	1700	2285	6.34
7/8/08	29 66	30 101	31 80	32	33	34	35	WK 5	247	2532	7.03
7/15/08	36	37	38	39	40	41	42	WK 6			
7/22/08	43	44	45	46	47	48	49	WK 7			
7/29/08	50	51	52	53	54	55	56	WK 8			
8/5/08	57	58	59	60	61	62	63	WK 9			

Notice the mortality on the fifth day and then in the fourth week.

Flock No. 112

TURKEY MORTALITY RE

Location D2/M2 No. Started 5,700 Date 10-14-11 Strain 1

WEEK	DAY							WE EK	
	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	Total	%
0	28	14	7	21	10	27	6	113	
1	11	2	5	4	1	7	5	35	
2	25	2	3	(11)	7	3	5	25	
3	4	3	HE 7 NR	10	8	8	3	43	
4	7	3	2	12	6	24	3	37	
5	2	2	OR 3 HE	NOTE	19	1	2	30	2
6	2	1	4	5/3	12/3	5/2	4	33	2
7	8	5	7	13/8	7	6	6	52	3
8	13	14	4	4	7	8	5		3
9	13/6	4	6	6					
10									

Charts can also record vaccination and other events.

DELIVERY DATE		SEX	KIND		NUMBER	
1	3-17-04		Nicholas		16,000	
2					ACE	
3						

PALS Vitamins 1 pack/125 galss. Amprol-1 qt./200 gals. Vaccine Stabilizer- 1 lb./100 gals. High D 2X- 12 oz./250 gals.		WHEN NECESSARY: Citric-Acid- 1 lb./100 gals. Emasol- 1 qt./250 gals. Copper- 1 lb./250 gals.		Chlorine should be used continuously at a rate of 3 parts per million. Test for this level at end drinker in each barn daily. Discontinue 24 hrs. prior to vaccinations.		Always call your WPC S Department if loss is ex Our service people and diagnostic lab are always available to help.					
DATE	WK	Thurs	Fri	Sat	Sun	Mon	Tues	Wed	WKLY	TOTAL	%LOSS
	0	High D 90° 16	90° 20	Vit 44	84 40	86 37	Vit 29	34	220	220	
	1	High D 88	172	Vit 78	97	83	54	19	584	804	
	2	High D 240	28	Vit 14	22	7	Vit 12	11	384	1188	
	3	32	6	7	1	17	6				
	4										
	5										

Handwritten notes:
 (Pile)
 Escapes
 ACE

These charts remember details we would like to forget.

Location Lagoon No. Started 13,000 Date 3-12-04 Strain _____

WEEK	DAY							WEEK	
	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	TOTAL	
1	76	38	51	32	8	16	15	236	
2	28	47	32	23	12	8	10	155	
3	13	5	4	9	6	7	6		
4	2		8	1	11	1	11		
5	2	4	3						
6									
7									
8									

Notice the second week and then the fourth week.

1	3-12-04		KIND	Nicholas	NUMBER	13,000	EXTRAS				
2	Left 761 mouse										
3											
PALS Vitamins 1 pack/125 galss. Amprol-1 qt./200 gals. Vaccine Stabilizer- 1 lb./100 gals. High D 2X- 12 oz./250 gals.		WHEN NECESSARY: Citric-Acid- 1 lb./100 gals. Emasol- 1 qt./250 gals. Copper- 1 lb./250 gals.		Chlorine should be used continuously at a rate of 3 parts per million. Test for this level at end drinker in each barn daily. Discontinue 24 hrs. prior to vaccinations.		Always call your Department if needed. Our service per diagnostic lab available to help.					
DATE	WK	Sat	Sun	Mon	Tues	Wed	Thurs	Fri	WKLY	TOTAL	%L
	0	High D 41	12	Vit. 14	6	10	Vit. 9	14	106	106	
	1	High D 16 23	43	Vit. 32	15	7	Vit. 7	2	129	235	
	2	High D 12	14	Vit. 9	9	6	Vit. 8	12			
	3	2	2	41	☺	5	0	2			
	4	☺	2	* 1	☺						
	5										
	6										
	7										

Mortality increase in the second week indicates some problem developing late in the first.

DELIVERY DATE	SEX	KIND	NUMBER	EXTRAS
1 6-5-04		Nicholas	14,000	
2				
3				

PALS Vitamins 1 pack/125 WHEN NECESSARY: Citric Acid 1 lb/100

PALS Vitamins 1 pack/125 gals.
Amprol-1 qt./200 gals.
Vaccine Stabilizer- 1 lb./100 gals.
High D 2X- 12 oz./250 gals.

WHEN NECESSARY: Citric-Acid- 1 lb./100 gals.
Emasol- 1 qt./250 gals. Copper- 1 lb./250 gals.

Chlorine should be used continuously at a rate of 3 parts per million. Test for this level at end drinker in each barn daily. Discontinue 24 hrs. prior to vaccinations.

Always call
Department
Our service
diagnostic
available

[illegible]