

UNIVERSITY OF ARKANSAS -10 YEAR STUDY

From June 1995 to July 2005

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Table 1: Average Daily Mortality of Chickens during Summer Flocks.

	Average Daily Mortality			
Dates - Summers of 1995 to 2005	House 1 Mister	House 2 Sprinkler	House 3 Mister	House 4 Pad-cooled
Average	28.48	18.57	23.15	27.80

1. Mortality is calculated for age 35 days until the day before the harvest.
 2. Houses 1 and 3 were conventionally ventilated with mist systems, while House 4 was a pad-cooled, tunnel-ventilated house and the cooling system in House 2 sprinkled water directly on the birds.

Table 2: A Comparison of Summer Cooling Water Usage & Caked Litter Removal

	Cooling H2O (gal)		Cake Removed (loads) ¹	
Year 1995 - 2005	House 2 Sprinkler System	House 4 Pad Cooled	House 2 Sprinkler System	House 4 Pad Cooled
Average	4926	34000	2.88	3

1. Total annual cleanout performed on Flock 33 and total cleanout of experimental bedding on Flock 34 in 1996.

Table 3: Production Figures, Flock Water Consumption and Fan Electricity Use for Summer Flocks.

	Feed Conversion		Average Wt. (lbs)		Pay/lb (cents)		Water Consumption /ilk (gals)		Fan Electricity/ilk (kwh)	
	House # 2	House # 4	House # 2	House # 4	House # 2	House # 4	House # 2	House # 4	House # 2	House # 4
Avg.	1.95	1.97	4.82	4.77	4.42	4.15	43,108	43,599	3,776	3,775