Hy-Line.

HOUSING PREPARATIONS BEFORE SUMMER

Remove any metal objects from around sheds (machinery, vehicles and other junk) which could radiate heat into open houses.



Remove manure from houses in February/March.

> Avoid over-crowding in cages.





Thatching material (straw or grasses) will reduce heat radiating through the roof.

White-washing roof helps to reflect more heat

Roof sprinklers are also an effective combination with roof thatching.



Install/clean fans and foggers prior to summer.





Water tanks are best placed inside the shed or buried underground.

Tanks outside the shed should be insulated or painted white.





Routine window screen cleaning improves cross-ventilation.

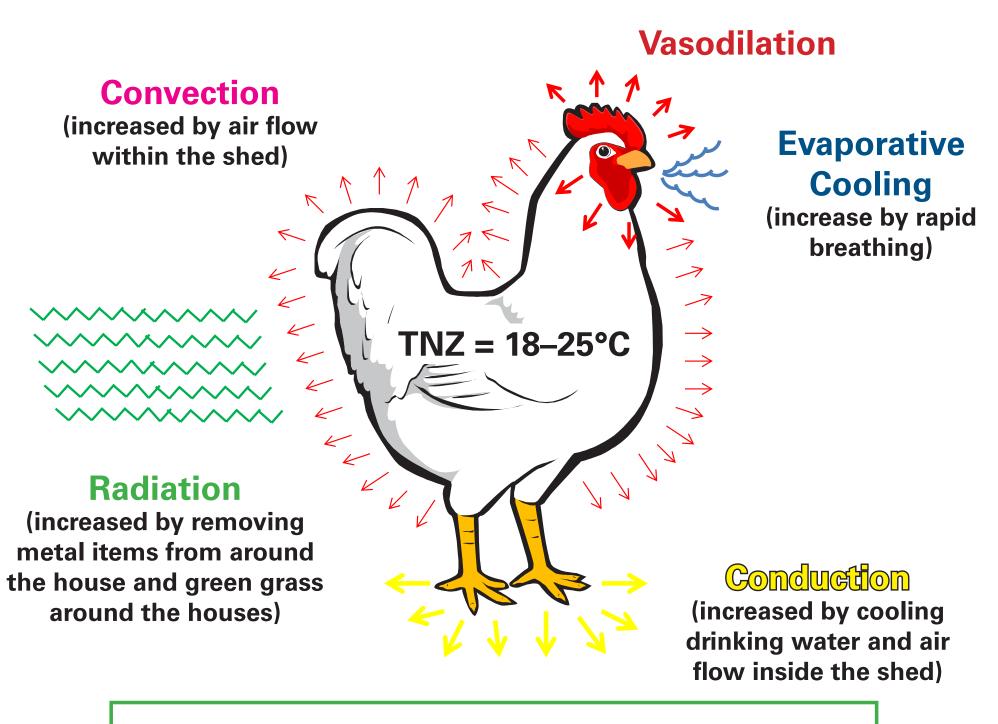
Dripping water onto gunny bags reduces air temperature inside of the shed.



BEST MANAGEMENT PRACTICES DURING SUMMER

TEMPERATURE HUMIDITY INDEX (THI)

Relative Humidity (%)																					
°F	°C	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
68	20	63	63	63		рт	64	64	65	65	65	66	66	66	66	67	67	67	67	68	68
72	22	64	Com	nfort	< 70	-66	66	67	67	67	68	68	69	69	69	70	70	70	71	71	72
75	24	66	67	67	68	68	69	69	70	70	70	71	71	72	72	73	73	74	74	75	75
79	26	68	69	69	70	70	71	71	72	73	73	74	74	75	75	76	77	77	78	78	79
82	28	70	70	71	72	72	73	74	74	75	76	76	77	78	78	79	80	80	81	82	82
86	30	71	72	Aler	t 70-	-75	75	76	77	78	7 , D	ange	er 76	-81	81	82	83	84	84	85	86
90	32	73	74	75	76	77	77	78	79	80	81	82	83	84	84	85	86	87	88	89	90
93	34	75	76	77	78	79	80	81	82	83	84	84	85	86	87	88	29	90	91	92	93
97	36	77	78	79	80	81	82	83	84	85	86	87	88	89	90	Emergency >82				96	97
100	38	78	79	81	82	83	84	85	86	88	89	90	91	92	93	95	96	97	98	99	100



THERMOREGULATION OF BIRDS

NUTRITIONAL MANAGEMENT

Avoid feeding hottest part of the day. Increase feeding hours in morning.

- Formulate feed according to actual feed intake levels.
- Include oils and synthetic amino acids to replace energy and crude proteins.
- Increase the levels of vitamins (Vitamin C at 200-300 mg/kg of diet), trace mineral, sodium bicarbonate, organic zinc and copper.
- Increase phosphorus levels up by 5%.
- Avoid Nicarbazine (anticoccidial drug) during hot weather.



Fan and Fogger Management: High Humidity - Prefer Fans

Midnight Lighting: 1–2 hours in night, leaving 3 hours dark before and after midnight light. Done effectively with the help of timers.

- cooler.

- can be beneficial.
- Potassium chloride, ammonium chloride and sodium bicarbonate (2-3kg/Mt)



MANAGING FLOCKS DURING SUMMER

Keep drinking water cool by flushing water lines during the hottest period of the day.

Avoid disturbing birds during day time – shifting, vaccinating, beak trimming etc.



Low Humidity - Prefer Fogger

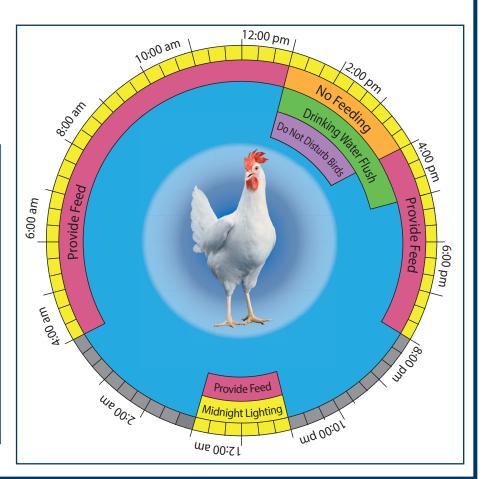
• Fan and Fogger run times decided based on shed temperature and humidity. • Run the foggers for 2 minutes every 10 minutes (frequent short periods).

• Ensure that using foggers or roof sprinklers does not limit availability of birds' drinking water.

• This can be practiced from the age of 6 weeks onwards.

 Lighting schedule adjusted to provide more hours in the morning during summer when temperatures are





VACCINATION CONSIDERATION

• Vaccinate early in the morning to minimize heat stress. Water withholding time should be considered.

• Adjust medications and volumes of water to reflect the increased water consumption during hot weather.

EMERGENCY SITUATIONS

Flocks sprayed with water to save its life.

• Risk for E.coli infection is high, so usage of water sanitizer is advisable.

FOR MORE INFORMATION

See the "Understanding Heat Stress in Layers" Technical Update at <u>www.hyline.com</u>.