

NZ ABF shed

STUDY 1 - Thermal Fogger

	Test nos.		Test nos.		Test nos.		Test nos.		
	1-6	0-0	1-6	0-0	1-6	0-0	1-6	0-0	
Considered Food Safe (A)	0 - 30	0	0	2	0	1	0	3	0
Considered clean (B)	31 - 100	0	0	4	0	2	0	3	0
Caution! (C)	101 - 200	1	0	0	0	2	0	0	0
Contaminated (D)	201 - 500	2	0	0	0	1	0	0	0
High Contamination Risk (E)	501 - 1000	2	0	0	0	0	0	0	0
Extreme Contamination Risk (F)	1000+	1	0	0	0	0	0	0	0
		6	0	6	0	6	0	6	0

Z-71 Treated Shed - Shed 4

Cycle description:	Farm Wash			After Z-71			Mid run			Final		
	June 10th 2020			June 11th 2020			June 30th 2020			July 27th 2020		
POSITION	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code
Wall beside Annex	1	578	E	1	16	A	1	52	B	1	16	A
Wall opposite Annex	2	132	C	2	18	A	2	39	B	2	38	B
Back Wall - furthest from Annex	3	374	D	3	37	B	3	16	A	3	10	A
Drinker - Opposite Annex side	4	3480	F	4	88	B	4	123	C	4	55	B
Feeder - Opposite Annex side	5	757	E	5	39	B	5	405	D	5	41	B
Front Wall	6	496	D	6	68	B	6	124	C	6	26	A

No Feed in & Thermal Fogged

Broiler Z-71 STUDY 2

Note: The neighboring untreated broiler shed was also introduced as a comparison. At the first follow up (10 days) the drinker line and feeder bowls were also ATP tested in both sheds.

ATP ANALYSIS - STUDY 2 SHEDS UNTREATED Vs TREATED										
Sheds	A		B		A		B		A	
ATP TEST Nos	142-150		151-18		-		159-167			
CONSIDERED FOOD SAFE (A)	0-30	5	6	0	5	0	2	0	2	
CONSIDERED CLEAN (B)	31-100	2	0	1	2	0	3	0	6	
CAUTION! (C)	101-200	0	0	2	0	0	1	1	0	
CONTAMINATED (D)	201-500	0	0	3	1	3	2	5	0	
HIGH RISK OF CONTAMINATION	501-1000	0	0	1	0	2	0	1	0	
EXTREME RISK OF CONTAMINATION	1000+	0	0	2	0	4	0	2	0	
		7	6	9	8	9	8	9	8	

SHED A - UNTREATED										
Cycle description:	AFTER CLEAN AFTER ZPP BEFORE BIRDS		FOLLOW UP 25% THROUGH CYCLE BIRDS IN		FOLLOW UP 50% THROUGH CYCLE BIRDS IN		FOLLOW UP 100% THROUGH CYCLE BIRDS OUT		END	
Time Cycle	Jan-19		10 days		21 days					
POSITION	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code	Test #
JUST INSIDE DOOR - TOP RHS	102	88	B	131	311	D	142	275	D	178
MIDDLE WALL	103	14	A	132	301	D	143	513	E	338
FAR END - RHS WALL	104	33	B	133	472	D	144	745	E	317
POLE MIDDLE FAR END	105	8	A	134	792	E	145	1857	F	458
FAR END - LHS WALL	106	6	A	135	107	C	146	2075	F	556
MIDDLE WALL	108	7	A	136	129	C	147	337	D	356
TOP END WALL - TOP LHS	109	24	A	137	77	B	148	240	D	297
FEEDER TRAY				138	3936	F	149	1294	F	1708
DRINKER BOWL				139	7800	F	150	7207	F	7330
AVERAGE BACTERIA LOADS		26			1547			1616		1282

SHED B - Z-71 TREATED										
Time Cycle	Jan-19		10 days		21 days					
POSITION	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code	Test #
TOP LHS WALL	95	0	A	125	10	A	151	220	D	159
FAR END LHS WALL	96	19	A	126	39	B	152	85	B	160
POLE MIDDLE - FAR END	97	8	A	127	21	A	153	28	A	161
FAR END RHS WALL	98	2	A	128	0	A	154	40	B	162
WALL MIDDLE RHS	99	4	A	129	62	B	155	35	B	164
WALL TOP RHS	101	2	A	130	7	A	156	14	A	165
FEEDER 2 IN 3 DOWN				140	385	D	157	450	D	166
DRINKER 2 IN 3 DOWN				141	8	A	158	134	C	167
AVERAGE BACTERIA LOADS		6			67			126		49

- Study 2 Undertaken on subsequent cycle. Z-71 applied only to Shed B, ATP test performed on Shed A (untreated) and B (Z-71 treated).
- Microbe levels in Z-71 treated shed lower than untreated shed.

Broiler Z-71 STUDY 3

Note: This being the third cycle meaning the third application on the treated shed, produced superior results in bird performance. This was further endorsed by improved Feed Conversion Ratio (FCR) results.

ATP ANALYSIS - STUDY 3										
Sheds	A		B		A		B		A	
ATP TEST Nos	188-196		180-187		201-209		211-220		230-240	
CONSIDERED FOOD SAFE (A)	0-30	3	8	0	3	0	3	0	1	
CONSIDERED CLEAN (B)	31-100	4	0	0	4	0	4	0	3	
CAUTION! (C)	101-200	0	0	0	1	0	1	0	2	
CONTAMINATED (D)	201-500	1	0	2	0	3	2	0	2	
HIGH RISK OF CONTAMINATION	501-1000	1	0	4	0	3	0	3	0	
EXTREME RISK OF CONTAMINATION	1000+	0	0	3	0	3	0	3	0	
		9	8	9	8	9	8	9	8	

SHED A - UNTREATED										
Cycle description:	AFTER CLEAN AFTER ZPP BEFORE BIRDS		FOLLOW UP 50% THROUGH CYCLE BIRDS IN		FOLLOW UP 100% THROUGH CYCLE BIRDS IN		FOLLOW UP 100% THROUGH CYCLE BIRDS IN		END	
Time Cycle	27 February 2019		25 March 2019		11 April 2019					
POSITION	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code	Test #
JUST INSIDE DOOR - TOP RHS	188	708	E	201	2236	F	230	370	D	
MIDDLE WALL	189	58	B	202	2281	F	232	1861	F	
FAR END - RHS WALL	190	73	B	203	615	E	233	411	D	
POLE MIDDLE FAR END	191	0	A	204	788	E	234	898	E	
FAR END - LHS WALL	192	27	A	205	333	D	235	677	E	
MIDDLE WALL	193	84	B	206	716	E	236	316	D	
TOP END WALL - TOP LHS	194	14	A	207	226	D	237	683	E	
FEEDER 2 IN 3 DOWN	195	221	D	208	2554	F	239	1190	F	
DRINKER 2 IN 3 DOWN	196	66	B	209	562	E	240	2790	F	
AVERAGE BACTERIA LOADS		139			923			1022		

SHED B - Z-71 TREATED										
Time Cycle	Feb-19		10 days		21 days					
POSITION	Test #	Result	Code	Test #	Result	Code	Test #	Result	Code	Test #
TOP LHS WALL	180	12	A	211	19	A	228	58	B	
FAR END LHS WALL	181	17	A	212	61	B	229	49	B	
POLE MIDDLE - FAR END	182	21	A	213	112	C	244	450	D	
FAR END RHS WALL	183	2	A	214	75	B	245	27	A	
WALL MIDDLE RHS	184	0	A	215	90	B	246	108	C	
WALL TOP RHS	185	1	A	216	24	A	247	193	C	
FEEDER 2 IN 3 DOWN	186	22	A	219	29	A	249	36	B	
DRINKER 2 IN 3 DOWN	187	1	A	220	34	B	250	315	D	
AVERAGE BACTERIA LOADS		13			56			155		

- Study 3 Undertaken on subsequent cycle. Z-71 applied only to Shed B, ATP test performed on Shed A (untreated) and B (Z-71 treated).
- Microbe levels in Z-71 treated shed lower than untreated shed.