



**BIOAKTIV<sup>®</sup>**

EvoSalis Hog is BioAktiv Professional Salis Pig



Report of King Nursery 1 and 2  
treated with EvoSalis Hog for drinking  
water on a 8500 head nursery at  
Warren Swine Farms Sampson County,  
NC a contract grower for Smithfield  
foods.

Conducted May 6<sup>th</sup>, 2017 – July 2<sup>nd</sup>, 2017



## Objectives

EvoSalis Hog for drinking water is a highly purified sodium chloride.

Its mode of action promises:

- Better in house atmosphere
- Homogenized manure and higher aerobic bacteria activity in manure
- Reduction of Ammonia, Methane and odors
- Reduced insects
- Higher livability
- Positive effects on manure management systems

This trial shall prove and confirm the benefits the material promises.



## Location and trial set up

King Nursery 2: each room has been treated with EvoHog Salis. 200gramms per day in 5 Gallons of water have been injected with common used medicators into the drinking water systems for 48 days.

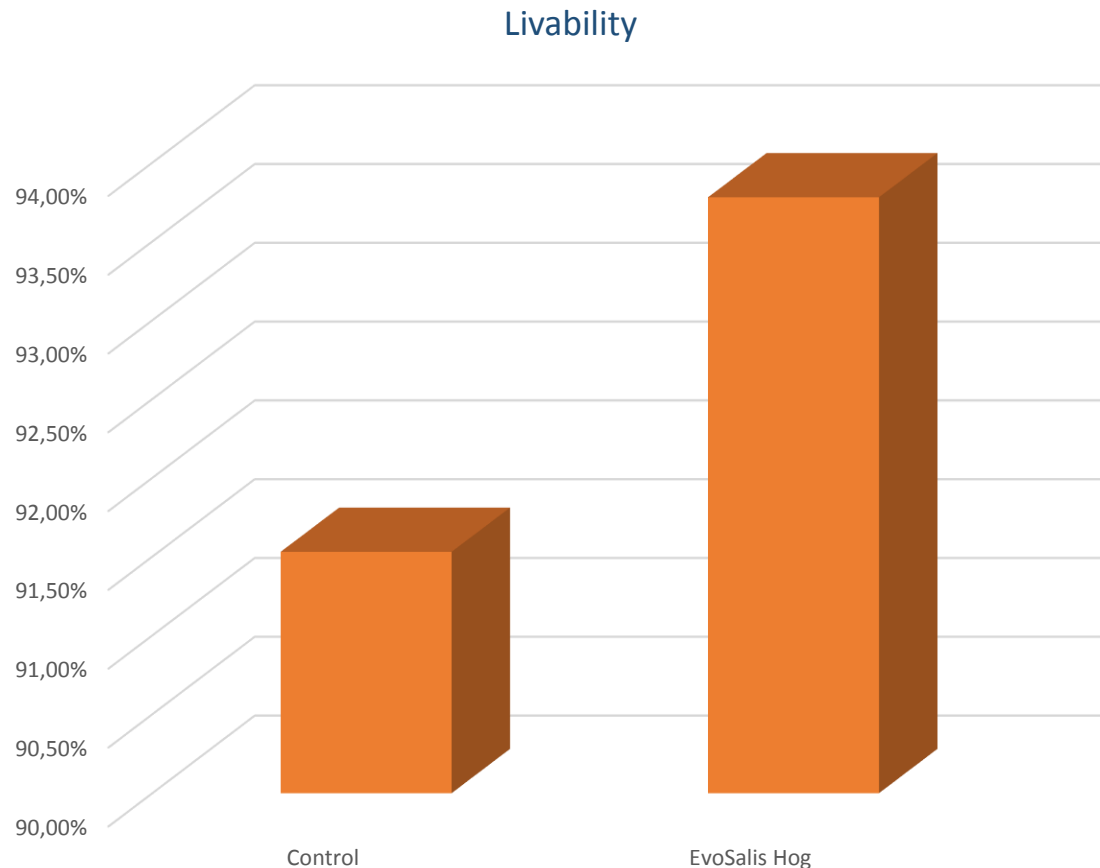
King Nursery 2 was control

Piglets have been delivered from SOW Farm McQueen 1 and 2. Health status of both farms are PEDX!

4 rooms have been equipped with Multi RAI Gas meters for ammonia, methane and CO2 readings. 625.000 reading points have been recorded.



# EvoSalis Hog improved livability in a treated 5200 head piglet nursery by 2,25%!



2,25% improved livability = 113 pigs

113pigs \*\$50= \$5668

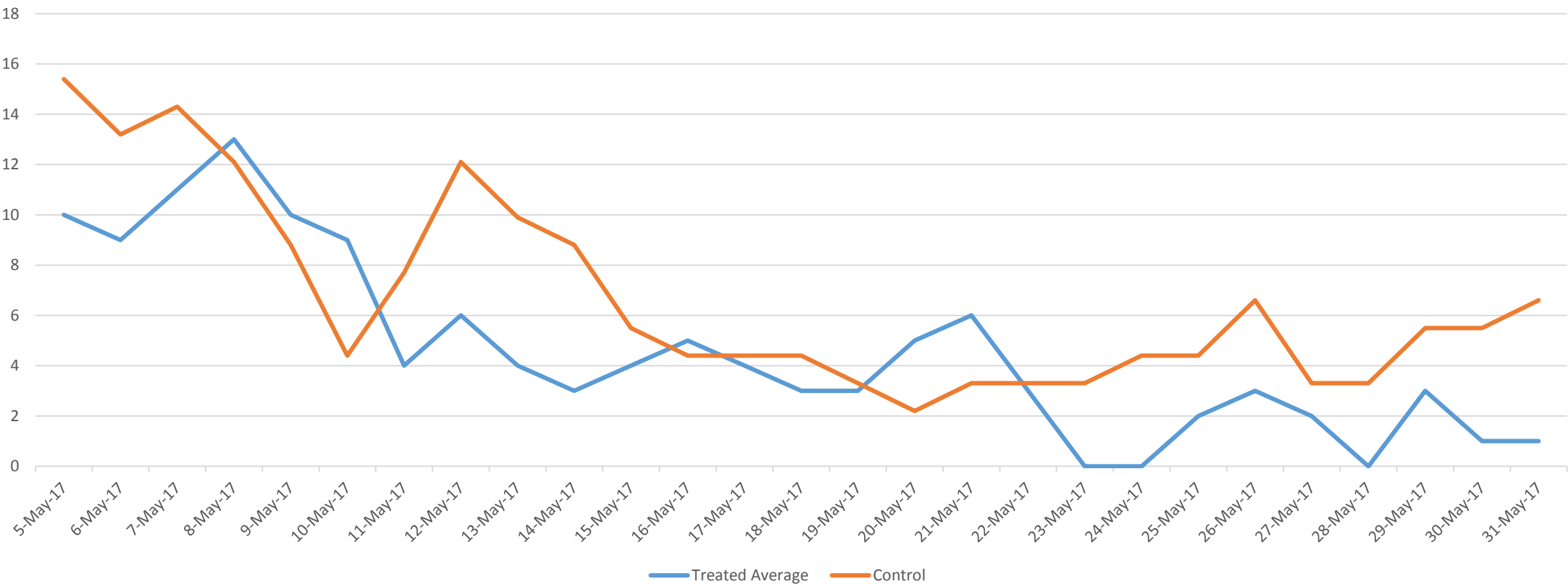
At a market price at \$50 per piglet

Costs of EvoSalis Hog	\$1500
Extra value	\$5668
<u>Profit</u>	<u>\$4168 per turn</u>

**6 turns a year creates an extra profit for the Smithfield of \$25,013 per house!**

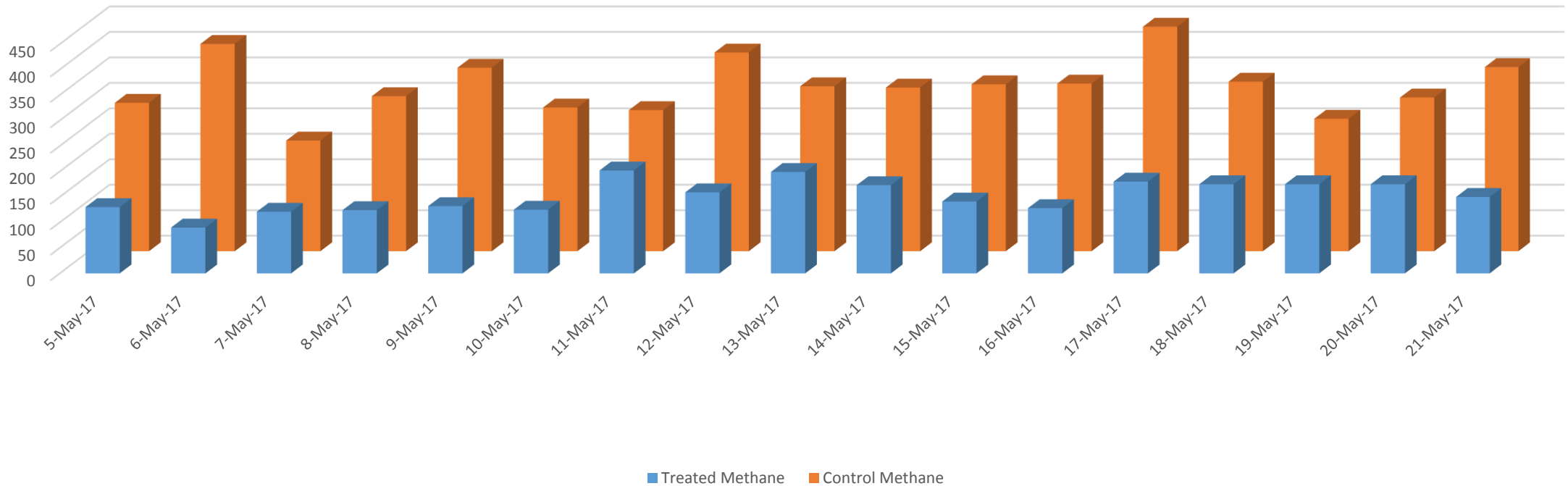
# 54% lower Ammonia emissions have been recorded after the treatments with EvoSalis Hog

Ammonia daily averages in ppm



# EvoSalis Hog provided a 61% reduction of methane emissions in house

Methane emissions treated and control in ppm



# Overview Close outs King 1 and 2 Smithfield foods

TREATED																	
Room	Placed	NV	DOA	Dead	Sold	Days in	Livability placed	Weight in	Weight out	WG	AWG	ADG	Feed in lb	FCR	\$	\$ per head	Source
1	752	8	0	77	682	48	90,69%	12.151,00	36.931,00	24.780,00	36,33	0,76	37.768,00	1,52	2.902,00	4,26	1 and 2
2	766	1	0	36	729	48	95,17%	12.413,00	36.036,00	23.623,00	32,40	0,68	31.742,00	1,34	3.238,61	4,44	1 and 2
3	752	12	0	39	701	48	93,22%	12.195,00	40.562,00	28.367,00	40,47	0,84	48.200,00	1,70	3.037,88	4,33	1 and 2
4	697	2	0	48	650	48	93,26%	11.301,00	40.562,00	29.261,00	45,02	0,94	33.608,00	1,15	2.790,85	4,29	2
5	705	0	0	18	687	48	97,45%	11.431,00	37.776,00	26.345,00	38,35	0,80	36.056,00	1,37	3.051,18	4,44	1 and 2
6	690	0	0	35	655	45	94,93%	10.492,00	33.561,00	23.069,00	35,22	0,78	33.422,00	1,45	2.654,50	4,05	2
7	677	11	0	36	621	45	91,73%	10.294,00	28.716,00	18.422,00	29,67	0,66	26.924,00	1,46	2.517,85	4,05	1 and 2
<b>5039</b>	<b>34</b>	<b>0</b>	<b>289</b>	<b>4725</b>	<b>47,14</b>	<b>93,78%</b>	<b>11468,14</b>	<b>36306,29</b>	<b>24838,14</b>	<b>36,78</b>	<b>0,78</b>	<b>35388,57</b>	<b>1,43</b>	<b>2884,70</b>	<b>4,27</b>		

0,72%

control																	
Room	Placed	NV	DOA	Dead	Sold	Days in	Livability placed	Weight in	Weight out	WG	AWG	ADG	Feed in lb	FCR	\$	\$ per head	Source
8	467	7	0	49	411	48	88,01%	7108,00	23087,00	15979,00	38,88	0,81	23618,00	1,48	1765,99	4,30	1
9	472	14	0	40	415	48	87,92%	7183,00	20638,00	13455,00	32,42	0,68	23298,00	1,73	1658,70	4,00	1 and 2
10	473	0	0	38	432	48	91,33%	7199,00	24487,00	17288,00	40,02	0,83	26242,00	1,52	1833,73	4,24	2
11	451	0	0	23	426	45	94,46%	7375,00	22924,00	15549,00	36,50	0,81	13394,00	1,53	2037,53	4,78	1
12	455	4	0	24	423	45	92,97%	7441,00	22586,00	15549,00	36,76	0,82	29080,00	1,87	1507,48	3,56	1 and 2
13	430	7	0	12	411	48	95,58%	7009,00	23250,00	16241,00	39,52	0,82	29080,00	1,80	1507,48	3,67	2
14	533	0	0	31	482	48	90,43%	8613,00	25260,00	15549,00	32,26	0,67	23112,00	1,49	2142,63	4,45	2
<b>3281</b>	<b>32</b>	<b>0</b>	<b>217</b>	<b>3000</b>	<b>47,14</b>	<b>91,53%</b>	<b>7418,29</b>	<b>23176,00</b>	<b>15658,57</b>	<b>36,62</b>	<b>0,78</b>	<b>23974,86</b>	<b>1,63</b>	<b>1779,08</b>	<b>4,14</b>		



# EvoAktiv Salis cleans water lines!



Start of trial



48 days later

And maintains water lines cleaner!!!



Control



treated

## Further data according to Smithfield foods close outs

- Treated rooms produced 0,35% less non value pigs
- Treated rooms have a better livability by 2.25%
- Treated rooms show a better FCR by 0.20
- Contract grower earns \$0,13 more per head

Treated rooms show overall better performance in emissions, production data.

Health status of the treated piglets improved significantly during the trial.

## Profit and loss

2.25% better livability	=	\$5669
0.20 better FCR	=	\$2200
Costs of EvoSalis Hog	=	-\$1500
<b>Profit</b>	=	<b>\$6369</b>
<b>Profit per year at a 8500 head nursery</b>	=	<b>\$31845</b>



Please do not hesitate to contact us for any further questions!

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