

AHDB Pork

Understanding Longevity

Longevity Study Stage 1

Parameter	Value	Unit	1	2	3	4	5	6	7	8	9	Total
Wean to Serve	6.20	Parity										
Pregnancy Length	116.17	Reduction Rate%	38.8	4.1	3.7	28.7	2.7	22.0	48.2	88.6	100.0	
Suckling Period	27.86	L/S/Yr.	2.11									
Wasted Days/Litter	22.80	Production Index	173.03									
Average Culling Age	<u>3.97</u>											
Herd Turnover	1.88	Single Cycle Population	278	170	163	157	112	109	85	44	5	<u>1123</u>
Replacement Rate%	53.14	No. of Litters/Year										<u>2688</u>
		% Share of the Herd	24.8	15.2	14.5	14.0	10.0	9.7	7.6	3.9	0.4	
Average Cost/Sow/Day	2.50	% Share of Culls	22.3	15.4	3.5	9.0	11.1	19.7	12.8	3.1	0.0	
Lifetime Non-productive Cost/Sow	£226.29	Average Culling Age	1.98									

Longevity Study Stage 2

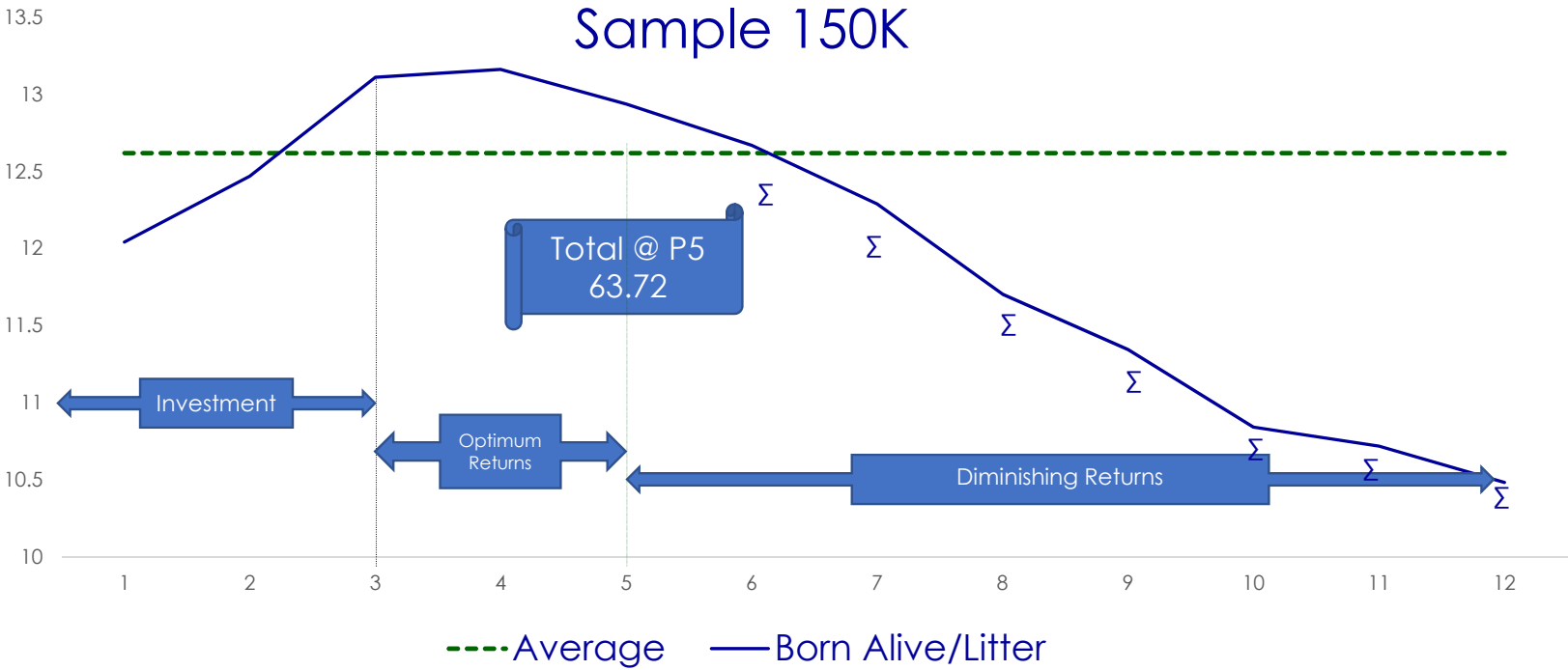
Wean to Serve	5.20	Parity	1	2	3	4	5		Total
Pregnancy Length	115.80	Reduction Rate%	5	5	5	5	100		
Suckling Period	25.40	L/S/Yr.	2.39						
Wasted Days/Litter	8.51	Production Index	152.5						
Average Culling Age	<u>4.71</u>								
Herd Turnover	1.96	Single Cycle Population	248	236	224	213	202		<u>1122</u>
Replacement Rate%	51.02	No. of Litters/Year							<u>2686</u>
		% Share of the Herd	22.1	21.0	19.9	19.0	18.0		
Average Cost/Sow/Day	2.50	% Share of Culls	5.0	4.8	4.5	4.3	81.5		
Lifetime Non-productive Cost/Sow	£100.08	age Culling Age	4.71					Sow Cost Difference	£126.21
								Herd Cost Difference	£75317.35

When Does A Sow Pay For Itself?

Cost of Pig Production (£)	1.40	<u>1.35</u>	1.30	1.25	1.25	1.25	1.25
Standard Pig Price (£)	1.45	<u>1.45</u>	1.45	1.45	1.50	1.55	1.60
Difference (p)	5.0	<u>10.0</u>	15.0	20.0	25.0	30.0	35.0
Cost of Gilt 1 (£) To Point of Service	300.00						
Cost of Gilt 2 (£)	350.00						
Sow Cull Value (£)	80.00	<u>100.00</u>	120.00	140.00	150.00	150.00	150.00
Margin/Pig (£)* (Rolling)	4.15	<u>8.30</u>	12.45	16.60	20.75	24.90	29.05
*Weaner Producers less Post-Wn. Mort%							
Breakeven Pigs 1 (No.)	53	<u>24</u>	14	10	7	6	5
Breakeven Pigs 2 (No.)	65	<u>30</u>	18	13	10	8	7

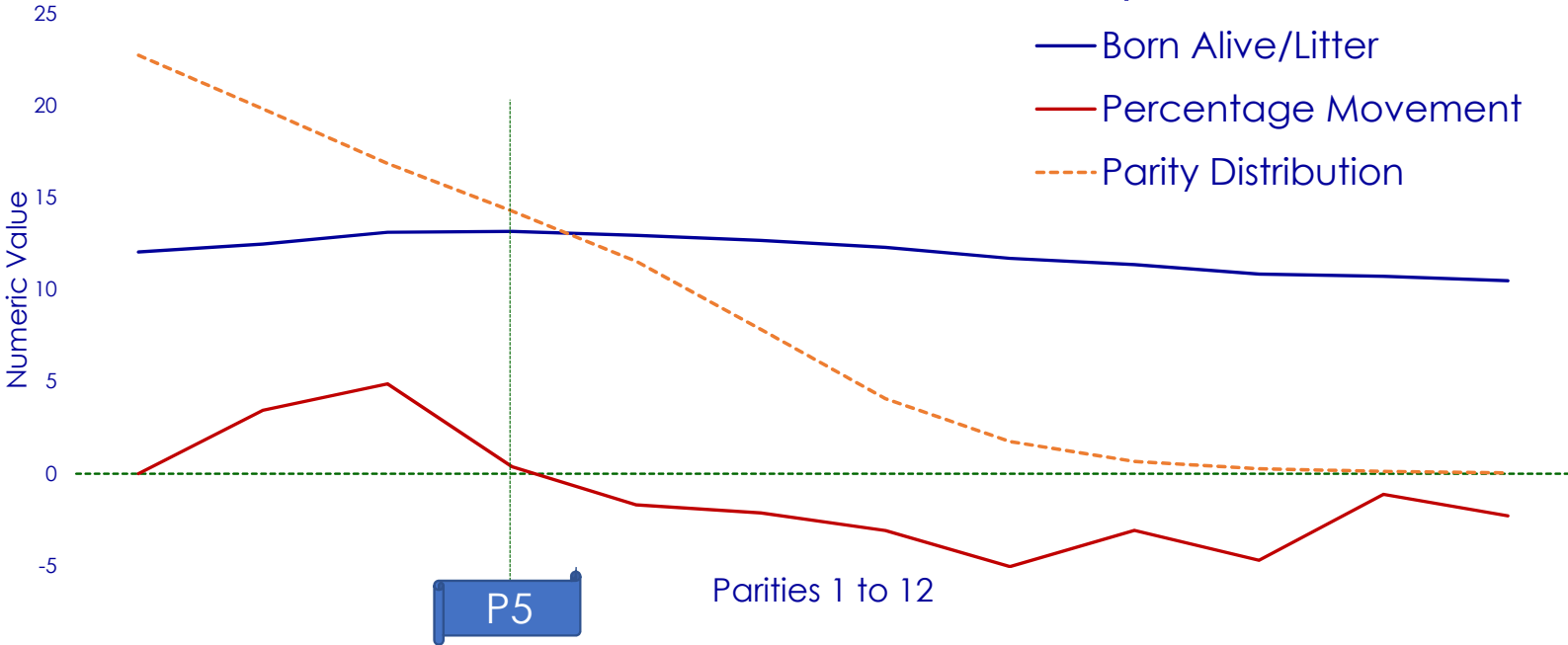
AHDB Pork

Average Born Alive/Litter 2016 to 2017 Sample 150K



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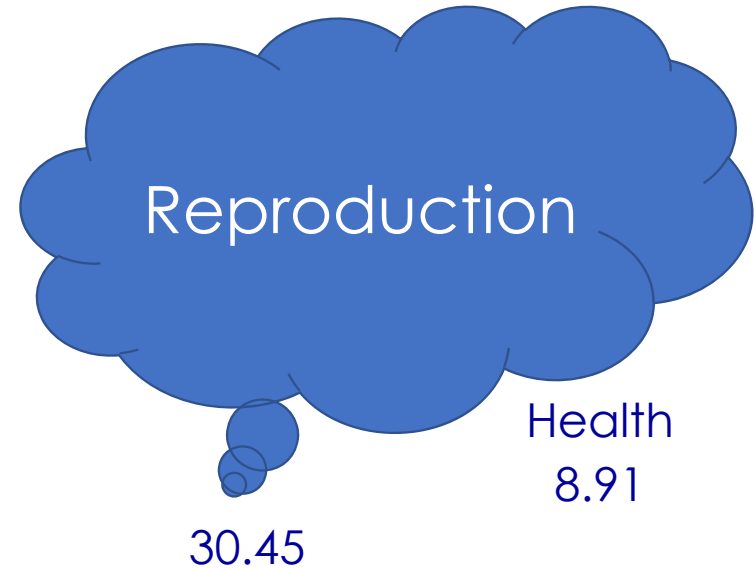
Born Alive/Litter in Relation to Parity Distribution



Why Do We Cull Sows?

<u>Reasons</u>	<u>% Share</u>
Age	27.16
Not In Pig	18.38
Miscellaneous (?)	12.56
Died	11.06
Poor Performance	9.86
Returns to Service	7.65
Barren	4.42
Health	3.33
Legs	2.98
Condition	1.50
Abortion	1.10
Total:	100.00.....

Performance
9.86



20%+
Inaccurately
Recorded

Source: BPEX Yearbook 2009

Parity	% of Total	Farrowing Rate%	% Returns	Multiple Returns%	Farrowing Rate% of Returns	Weaned /Litter
1	23.28	81.8	13.9	4.3	75.7	9.6
2	20.32	81.7	13.2	5.1	76.4	10.0
3	16.21	83.3	11.5	5.2	75.8	10.1
4	12.92	83.8	10.8	5.4	74.9	9.9
5	10.28	83.2	11.4	5.4	74.3	9.7
6	7.73	81.9	10.8	7.3	71.9	9.6
7	4.70	83.3	9.6	7.1	73.9	9.3
8	2.47	82.3	9.6	8.1	72.6	9.1
9	1.33	82.0	9.5	8.5	72.1	9.0
10	0.48	82.6	9.1	8.3	76.2	8.8
11-15	0.28	77.0	11.5	11.5	75.8	8.5

Weaned/Litter Total Serves 2009: 6.51

Weaned/Litter Total Serves 2017: *7.57

Source: BPEX Yearbook 2009/*AgroVision 2017

Pig Fair 2008

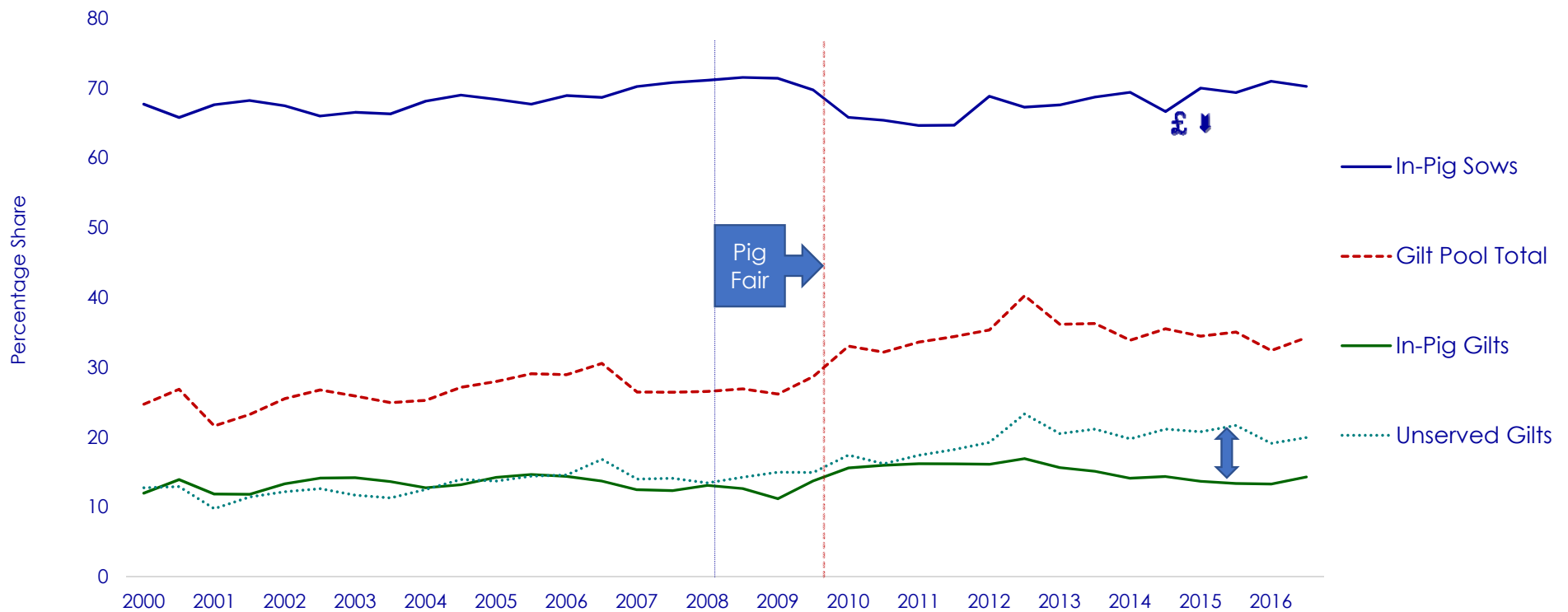
Parity	Average No. of Pigs Born Alive to Sows excluding Breeding Failure	Average No. of Pigs Born Alive to Sows including Breeding Failure	Ave.
1	9.9	9.9	(9.9)
2	10.1	8.7	
3	11.2	10.2	
4	11.9	11.3	
5	12.0	11.5	
6	11.0	9.8	(10.3)
7	10.7	8.4	
8	10.8	9.8	
9	10.2	8.5	
10	9.3	4.5	(7.8)

Source: AgroVision

Reference Farm			Number of Pigs Born Alive/Parity		Born Alive Piglet Cost/Parity	
		Parity	Born Alive/ Sows that Farrowed	Born Alive/ Sows Originally Served incl. First Returns	Born Alive/ Sows that Farrowed	Born Alive/ Sows Originally Served incl. First Returns
Total Gilt Cost @ 103.24Kg Lwt	£104.35					
Feed Cost to 140Kg Lwt	£17.09	1	9.9	Same	£40.29	Same
Vaccination Costs to Serve 1	£8.00	2	10.1	8.7	£33.80	£39.24
Management Costs to Serve 1	£22.00	3	11.2	10.2	£30.48	£33.47
Cull Value	-£92.24	4	11.9	11.3	£28.69	£30.21
Total Breeding Gilt Cost (Farm)	£57.52	5	12.0	11.5	£28.45	£29.68
<i>Genetic Premium</i>	<i>£?</i>	6	11.0	9.8	£31.03	£34.83
<i>No Margin at present</i>	<i>-£?</i>	7	10.7	8.4	£31.90	£40.64
Breeding Herd		8	10.8	9.8	£31.61	£34.83
Average Farrowing Index (Days)	164.5	9	10.2	8.5	£33.47	£40.16
Feed Cost/ Breeding Cycle	£92.12	10	9.3	4.5	£36.71	£75.87
Management Cost/Breeding Cycle	£249.31					
Total Cost/ Breeding Cycle	£341.43					

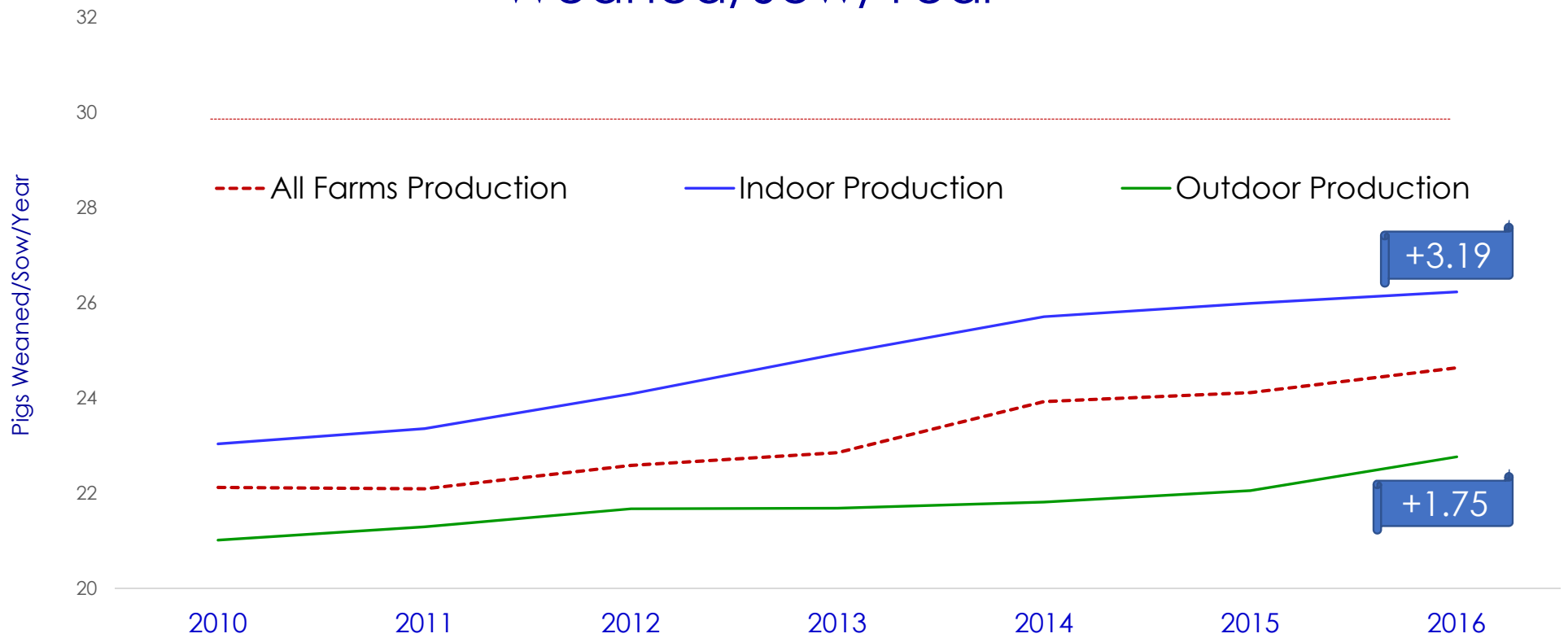
Stephen Hall Management 2008

Percentage Share of the UK Breeding Female Population June & December 2000 to 2016



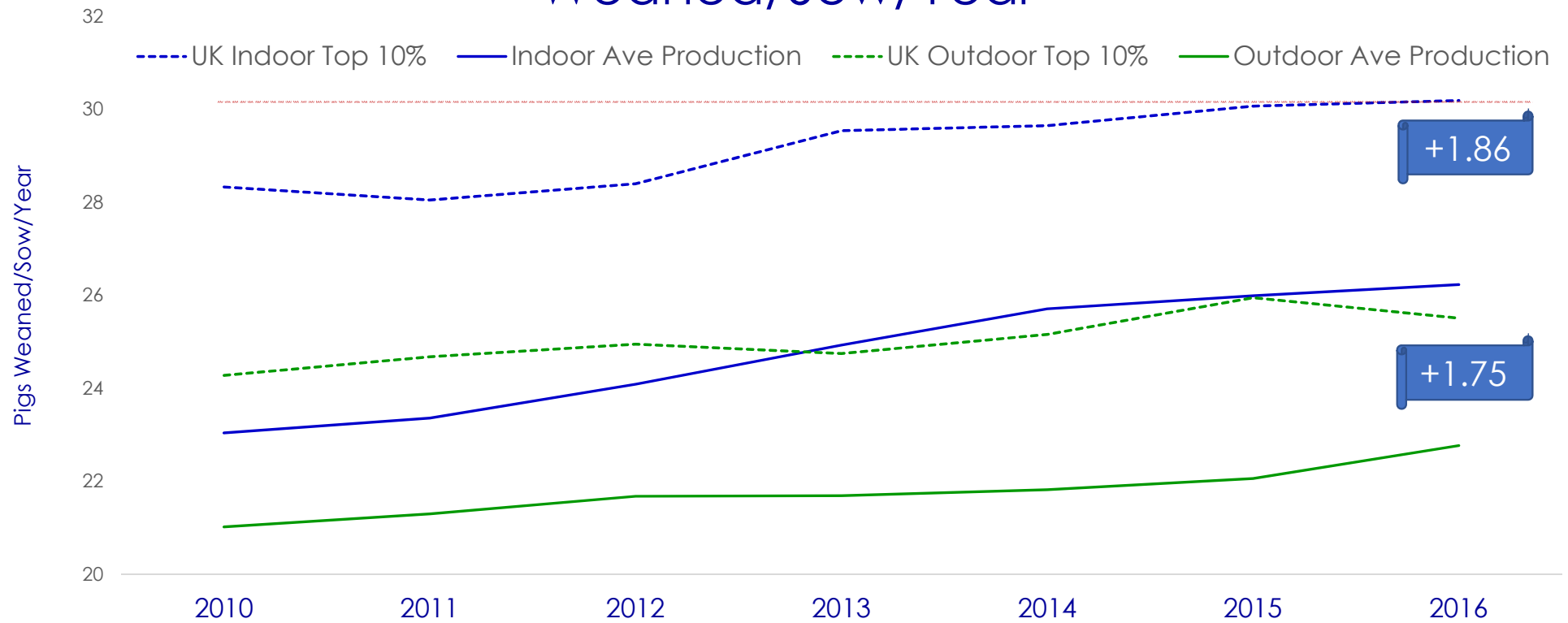
Source: Defra

UK Herd Pigs Weaned/Sow/Year



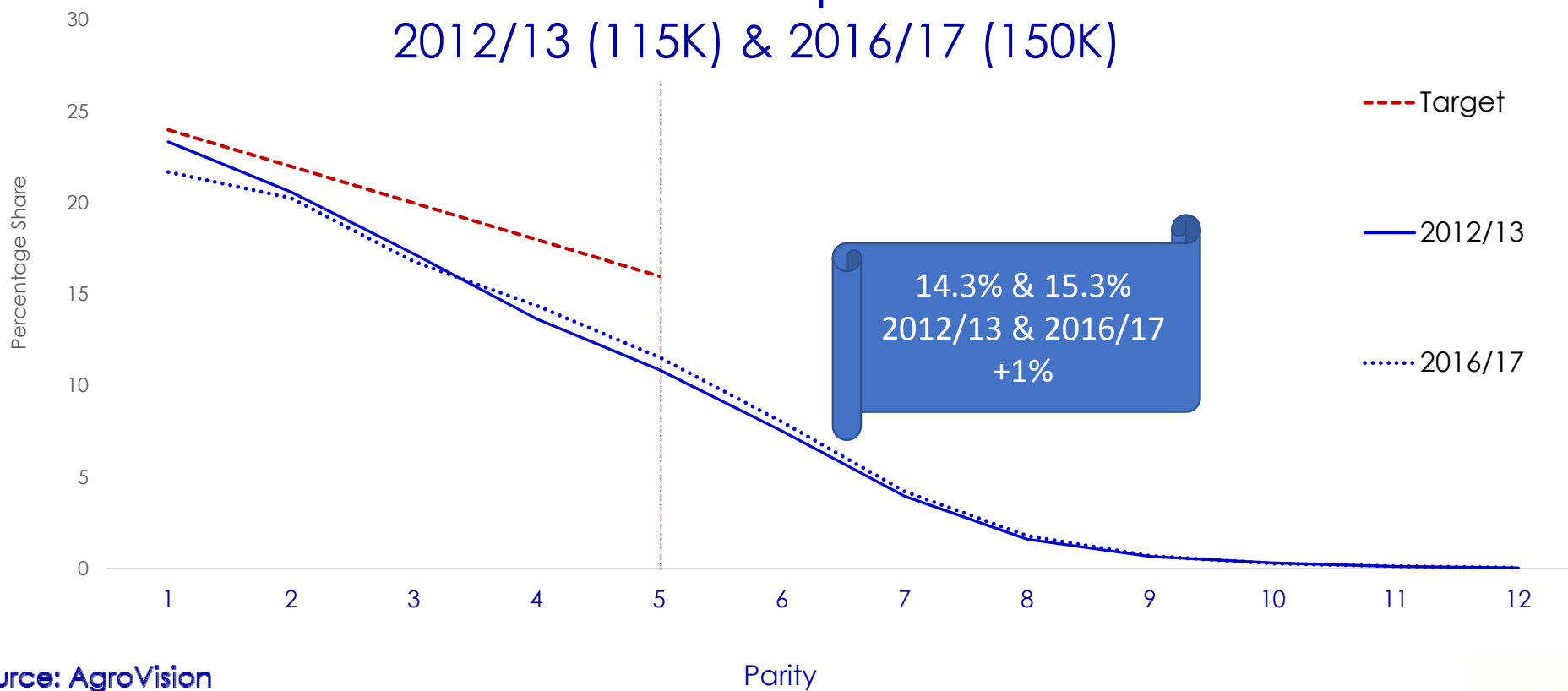
Source: AgroSoft

UK Herd Pigs – Top 10% Weaned/Sow/Year



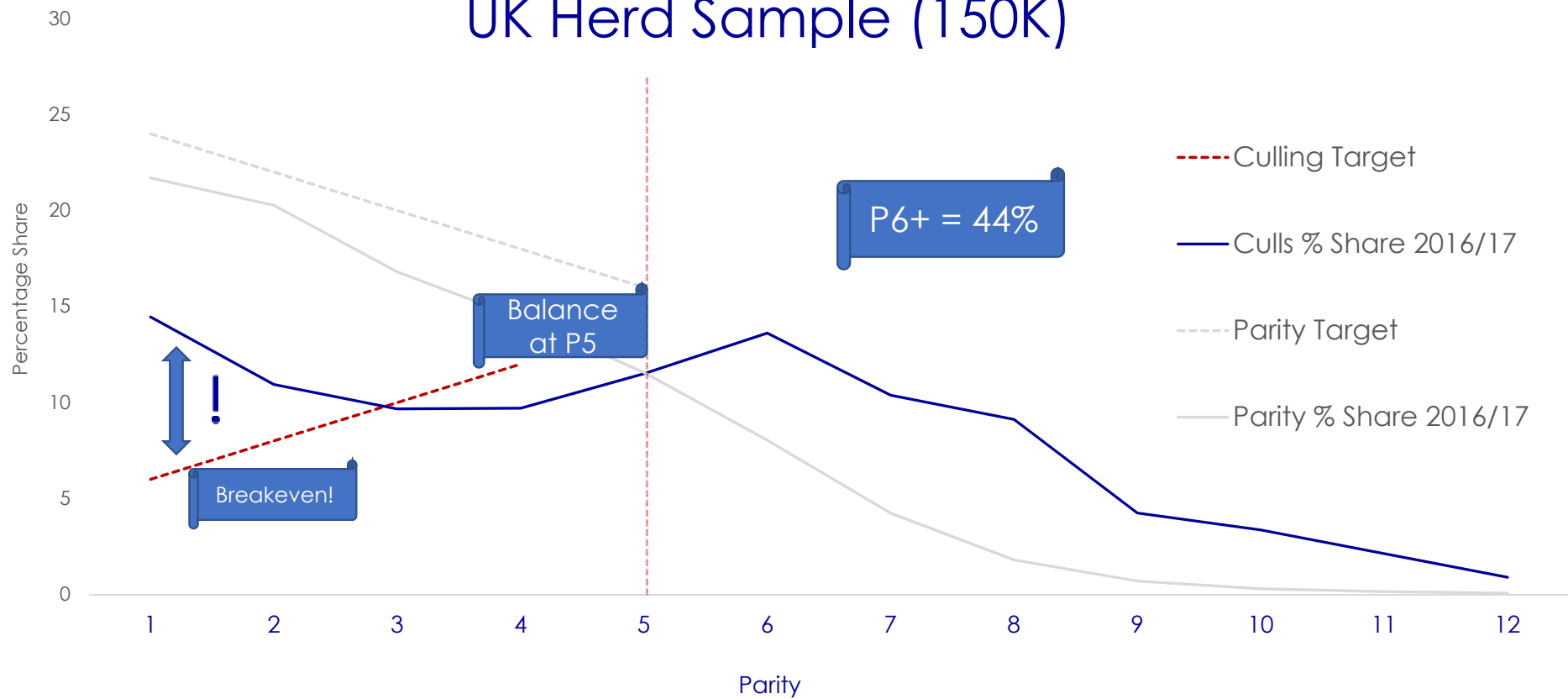
Source: AgroSoft

Parity Distribution % Share (Services) UK Sample 2012/13 (115K) & 2016/17 (150K)



Source: AgroVision

Percentage Share of Culls by Parity 2016/17 UK Herd Sample (150K)



	Benchmark		Standard	
	Indoor	Outdoor	Indoor	Outdoor
Liveborn/Litter	14.68	13.55	13.44	12.69
Weaned Pigs/Litter	13.08	11.31	13.13	11.16
Litters/Sow/Year	2.63	2.43	2.56	2.30
Pigs Weaned/Sow/Year	34.33	27.43	33.54	25.70
Lifetime Output Weaned	65.37	56.55	39.05	32.93

Cost Comparison (Longevity)

	Farm 1	Farm 2
Ave. Age @ Culling	3.85	5.15
Average No. of Productive Cycles	2.95	3.46
Pigs weaned/Sow/Year (Total Herd)	29.20	19.80
Farrowing Index (Days)	156.54	168.44
Cost/Production Cycle @ £2.00/Day (£)	313.08	336.88
Productive Sow Lifetime Cost (£)	923.24	1164.97
Total Sow Lifetime Cost (£)	1205.36	1734.93
Weaned Pig Cost Productive Sow Lifetime	£23.14	£25.18
Weaned Pig Cost Total Sow Lifetime	£30.21	£37.49

AHDB

Promoting Longevity

Plan for the Start of the Next Production Cycle
of each Service Group

Culls & Replacements