Innovations at Harper Adams – The Nooyen Crate

Harper Adams University

Piglet Mortality Analysis HAU 2014 data

	%	Mean Birth Wt	Ave Age (days)
All (n = 3956)		1.46	
Weaned	89.61	1.50	
Died	10.39	1.08	
Laid on	5.36	1.21	1.59
Not viable	2.15	0.67	1.26
Starved	1.11	1.08	5.98
Splay	0.56	1.17	2.0
Savaged	0.20	1.06	0
Meningitis	0.18	1.16	12.9
Lame	0.05	0.93	13.0
Scour	0.00		
Other (Various)	0.79	1.21	7.12

- Important to identify reasons for mortality and when.
- Those that die tend to be the smaller pigs at birth, however, not the case with overlays

AGE in days	0-1	2-3	4-7	8-14	15-27
% Of those that died					
Laid on	38.8	6.7	3.0	3.2	0.7
Lame				0.2	0.2
Starved		4.7	3.7	1.7	0.7
Savaged	2.0				
Not viable	11.6	8.9	0.2		
Scour					
Meningitis			0.7	0.2	0.7
Splay	1.0	4.0	0.5		
Other (need comment)	2.5	1.2	0.2	1.0	1.5
HAU 2014 (12.7% Mort)	56	25	8	6	4
PR English 1977 (18% Mort)	28	35	10	15	9

- The profile of mortality is important in deciding where to invest time and resources. At HA the most critical point is the first 24 hours.
- In comparison to profiles from years gone by late lactation mortality is very low. Contrary to popular belief comparing this case with data from years gone by, current large litters does not necessarily result in higher levels of % mortality.

Figures Nooyen Crate in the down and up positions

- 2014-2015 Harper Performance
  - 14.75 Tot Born
  - 13.4 Born Alive
  - 11.7 Weaned
  - 12.7% Mortality BA – Wean
- Overlays account for 50% of the pre weaning mortality on the Harper Pig Unit
- 16 Nooyen Rising Floor crates installed in 2014 as part of refurbishment program

% Overlays 2014-15 (537 Litters)

Parity	Nooyen	Other
All	2.97	6.66
7+	2.83	8.12

- High welfare system for piglets
- Most beneficial in older sows
- 3-4 year pay back on additional technology