

Batch farrowing place

Finishing performance - Killing out%, Food Conversion ratio and Growth rates

The batch farrowing provides an great tool to assess the impact of possible changes to your farm's profitability. In particular in analysis of the finishing herd's performance.

Change in cost of production with pig performance

Parameters in yellow boxes are user defined

Batch length	1	week
Batch farrowing place	20	sows
Number weaned per place	10	piglets
Finishing rate	95	%
Finished pigs	9880	per year
Days to slaughter	148	days
batches to finish	23	batches including one extra week for cleaning
Growth rate	669	g/day (from birth)
FCR	2.6	
Average finishing feed costs	200	£ tonne
Liveweight	100	kg
Killing out%	74	%
Dead weight	74	kg
Current cost of production	1.34	/ kg
Feed costs of total cost	65	%
Feed	0.87	£ kg
Fixed cost	0.47	£ kg
Output	731120	kg dead weight
Total cost of production	979701	£
Slaughter value	1.42	£ kg
Income	1038190	£
Profit	58490	£ year

We can now examine some options.

What if we changed the numbers weaned?

Rate of change	0.5	pig				
Pigs produced per year	9880	9880	9880	10374	10860	pigs
Dead weight produced	658008	694564	731120	767676	804232	kg
Cost of production	916020	947861	979701	1011541	1043381	£
Profit	18351	38420	58490	78559	98628	£
Change in profit	-40138	-20069	0	20069	40138	£

What if we changed the finishing rate?

Rate of change	1	%				
Pigs produced per year	9672	9776	9880	9984	10088	pigs
Dead weight produced	715728	723424	731120	738816	746512	kg
Cost of production	966294	972998	979701	986404	993107	£
Profit	50039	54264	58490	62715	66940	£
Change in profit	-8450	-4225	0	4225	8450	£

What if we changed the live-weight?

Rate of change	5	kg				
Pigs produced per year	9880	9880	9880	9880	9880	pigs
Weeks to slaughter	21	22	23	23	24	weeks plus cleaning week
Batches to slaughter	21	22	23	23	24	batches
Dead weight produced	658008	694564	731120	767676	804232	kg
Cost of production	916020	947861	979701	1011541	1043381	£
Profit	18351	38420	58490	78559	98628	£
Change in profit	-40138	-20069	0	20069	40138	£

What if we changed the killing out% ?

Rate of change	1	%				
Pigs produced per year	9880	9880	9880	9880	9880	pigs
Dead weight produced	711360	721240	731120	741000	750880	kg
Cost of production	962490	971095	979701	988306	996912	£
Profit	47641	53065	58490	63914	69338	£
Change in profit	-10848	-5424	0	5424	10848	£

What if we changed the cost of production?

Rate of change	0.02	£				
Pigs produced per year	9880	9880	9880	9880	9880	pigs
Dead weight produced	731120	731120	731120	731120	731120	kg
Cost of production	1008946	994323	979701	965078	950456	£
Profit	29245	43867	58490	73112	87734	£
Change in profit	-29245	-14622	0	14622	29245	£

What if we changed the rate of growth?

Rate of change	20	g/day				
Live-weight	100	kg				
Weeks to finish	24	23	23	22	21	weeks including 1 week clean
Batches to finish	24	23	23	22	21	
Effect of change of batch time						
1 weeks	24	23	23	22	21	weeks
2 weeks	12	12	12	11	11	weeks
3 weeks	8	8	8	8	7	weeks
4 weeks	6	6	6	6	6	weeks

What if we changed the FCR?

Rate of change	0.1					
Feed consumed	277	267	257	247	237	kg per pig
Price of feed	55.3	53.4	51.4	49.4	47.4	£ per pig
Change of feed costs	4.0	2.0	0.0	-2.0	-4.0	£ per pig
Change in feed costs	39046	19523	0	-19523	-39046	£
Profit	19444	38967	58490	78012	97535	£
Change of profit	-39046	-19523	0	19523	39046	£

What if we changed a number of parameters?

	Current	Proposed	
Batch time	1	1	week
Number weaned per place	10	10.5	pigs
Finishing rate	95	96	%
Growth rate	669	689	g/day
FCR	2.6	2.5	
Live-weight	100	105	kg
Killing out %	74	75	%
Cost of production	1.34	1.32	£ per pig
Batches required	23	23	batches
Cost of production	979701	1084235	£
Profit	58490	88048	£
Change in profit		29559	£