

## Batch Farrowing Place Farrowing house parameters

The batch farrowing places can be a useful starting point for investigating the performance of the farrowing house and allows simple what if? examination of possible changes.

### Expected farrowing house performance

#### Farrowing house impacts

Complete the yellow boxes to define your farm's parameters

Batch time		Batch farrowing places	
1 week		10	
Total per batch	Per farrowing place		
Total born	121.0 pigs	Post weaning finishing rate	95 %
Mummified	0.05 pigs	Deadweight	78 kg
Stillborn	0.9 pigs	Cost per kg dead weight	1.24 £
Born Alive pigs	112.7 pigs	Income per kg dead weight	1.34 £
Pigs weaned	100 pigs	Feed as a % of total cost	60 %
Post-weaning mortality	10.7 %	Dead weight per year	385320 kg

#### What if parameters change?

##### Farrowing places full per batch

Rate of change	1	2	3	4	5	6	7	8	9	10
Pigs finished per batch	96	85	76	66	57	47	38	29	20	11
Pigs finished per year	4940	4430	3952	3432	2964	2444	1928	1416	900	396
Dead weight finished per year	385320	344760	308256	267696	231192	190632	150072	110512	70952	31392
Cost per year	477797	427502	382237	331943	286678	236384	186090	135796	85502	35208
None food cost incurred	0	301.77	57336	87512	114671	144884	175097	205310	235523	265736
Cost per kg dead weight	1.24	1.23	1.24	1.27	1.24	1.20	1.17	1.14	1.11	1.08
Profit	38532	4299	-26510	-60743	-91552	-125785	-156036	-186287	-216538	-246789
Profit change	0	-34233	-65042	-99275	-133064	-164312	-193060	-220808	-247556	-274304

##### Numbers weaned per batch farrowing place

Rate of change	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6
Pigs finished per batch	91	93	95	96	98	100	100	100
Pigs finished per year	4732	4836	4940	4992	5096	5200	5200	5200
Dead weight finished per year	369096	377208	385320	389376	397488	405600	405600	405600
Cost per year	457679	467738	477797	482236	492285	502334	502334	502334
None food cost incurred	12071	6035	0	-3018	-9053	-15088	-21123	-27158
Cost per kg dead weight	1.27	1.26	1.24	1.23	1.22	1.21	1.20	1.19
Profit	24839	31685	38532	41955	48802	55648	55648	55648
Profit change	-13693	-6847	0	3423	10270	17116	23962	30808

##### Pre-weaning mortality per batch

Rate of change	1	2	3	4	5	6	7	8
Pigs finished per batch	102	101	99	98	97	96	95	94
Pigs finished per year	4992	4940	4888	4836	4784	4732	4680	4628
Dead weight finished per year	389376	385320	381264	377208	373152	369096	365040	360984
Cost per year	482836	477797	472767	467738	462708	457679	452650	447621
None food cost incurred	-3018	0	3018	6035	9053	12071	15088	18106
Cost per kg dead weight	1.23	1.24	1.25	1.26	1.26	1.27	1.27	1.28
Profit	41955	38532	35109	31685	28262	24839	21416	17993
Profit change	6847	3423	0	-3423	-6847	-10270	-13693	-17116

##### Total born per farrowing place

Rate of change	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6
Pigs weaned per batch	96	98	99	101	103	105	105	105
Pigs finished per batch	91	93	94	95	97	99	99	99
Pigs finished per year	4732	4836	4888	4940	5044	5148	5148	5148
Dead weight finished per year	369096	377208	381264	385320	393432	401544	401544	401544
Cost per year	457679	467738	472767	477797	487856	497915	497915	497915
None food cost incurred	12071	6035	3018	0	-6035	-12071	-18106	-24141
Cost per kg dead weight	1.27	1.26	1.25	1.24	1.22	1.21	1.21	1.20
Profit	24839	31685	35109	38532	45379	52225	52225	52225
Profit change	-10270	-3423	0	3423	10270	17116	23962	30808

##### Born alive per batch farrowing place

Rate of change	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6
Pigs weaned per batch	96	98	99	101	103	105	105	105
Pigs finished per batch	91	93	94	95	97	99	99	99
Pigs finished per year	4732	4836	4888	4940	5044	5148	5148	5148
Dead weight finished per year	369096	377208	381264	385320	393432	401544	401544	401544
Cost per year	457679	467738	472767	477797	487856	497915	497915	497915
None food cost incurred	12071	6035	3018	0	-6035	-12071	-18106	-24141
Cost per kg dead weight	1.27	1.26	1.25	1.24	1.22	1.21	1.21	1.20
Profit	24839	31685	35109	38532	45379	52225	52225	52225
Profit change	-10270	-3423	0	3423	10270	17116	23962	30808

##### Stillborn piglets per batch farrowing place

Rate of change	0.05	0.1	0.15	0.2	0.25	0.3
Pigs weaned per batch	100	100	100	99	99	98
Pigs finished per batch	95	95	95	94	94	93
Pigs finished per year	4940	4940	4940	4888	4888	4836
Dead weight finished per year	385320	385320	385320	381264	381264	377208
Cost per year	477797	477797	477797	472767	472767	467738
None food cost incurred	0	0	0	3018	3018	6035
Cost per kg dead weight	1.24	1.24	1.24	1.25	1.25	1.26
Profit	38532	38532	38532	35109	35109	31685
Profit change	0	0	0	-3423	-3423	-6847

##### Mummified pigs per batch farrowing place

Rate of change	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08
Pigs weaned per batch	100	100	100	100	100	100	100	100
Pigs finished per batch	95	95	95	95	95	95	95	95
Pigs finished per year	4940	4940	4940	4940	4940	4940	4940	4940
Dead weight finished per year	385320	385320	385320	385320	385320	385320	385320	385320
Cost per year	477797	477797	477797	477797	477797	477797	477797	477797
None food cost incurred	0	0	0	0	0	0	0	0
Cost per kg dead weight	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
Profit	38532	38532	38532	38532	38532	38532	38532	38532
Profit change	0	0	0	0	0	0	0	0

#### In relationship to each of these parameters

For	1 empty farrowing place		10 % change
Equates to	1.0 piglet less weaned per farrowing place	to	9.0 piglets
Equates to	10 % increase in pre-weaning mortality per batch	to	20.7 %
Equates to	2.0 less pigs total born per farrowing place	to	10.0 pigs
Equates to	2.0 less pigs born alive per farrowing place	to	19.2 pigs
Equates to	0.5 increase in stillborn pigs per farrowing place	to	1.3 pigs
Equates to	NA increase mummified piglet per farrowing place	to	NA pigs

This demonstrates the importance of filling each batch farrowing house place and the relative little impact of some of the parameters normal considered important - for example the stillbirth rate and even pre-weaning mortality. The most important parameters is filling each farrowing place and weaning more pigs per farrowing place.

