Batch Farrowing Place

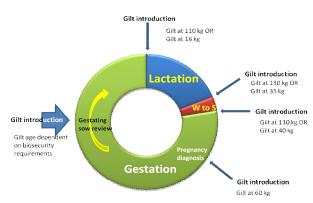
Gilt number

One major advantage of using batch farrowing place as a keystone to pig production is its ability to predict how many gilts are required for each batch.

Gilt requirements need to be well planned and not just on the day of weaning - or during the breeding week. You should never be short of gilts. There is no catch up in batch farrowing, you have to get the breeding target right first time

When can gilts be added to the batch breeding pool?

Sow	New Gilt weight kg									
culling		Weaning								
option		age								
		3w	4w							
Farrowing	110 or	25	18							
Weaning	130 or	40	35							
Breeding	130	45	40							
	or									
Pregnancy check	NA	65	60							
(28 days)										
Sow gestation check between 8 and 15 weeks	Depends on biosecurity requirements									



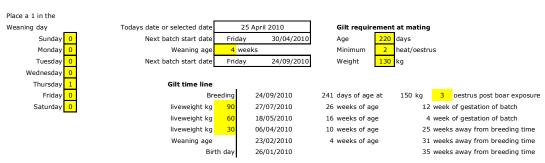
Sow culling/Gilt introduction graphic assuming 4 week weaning

When should gilt numbers required for a specific batch be finalised?

Gilt numbers should be finally calculated when the batch is at 10/11 weeks of gestation. This allows for final adjustments to be made to the gilt pool which will be made available in 9 weeks time. Note as soon as a possible shortage of gilts can be identified adjustments should be made - for example 2 sows abort at 60 days of pregnancy.

Gilt development lifecycle Gilt breeding time line

Customise the yellow boxes to your own requirements



Calculation

There are some internal calculations that by default calculate your next batch time day (the day after your next weaning date).

From this batch start date, next start date is calculated from wean to service (4 days) plus gestation length (115 days) plus the lactation length.

The age of the gilt at any particular week is calculated from the formulae: (ROUNDUP(-0.0744((((weight kg)/10)+1).2)+2.7618*(((weight kg)/10)+1)-0.2818,0))

The specific days in the gilt live cycle is important as they are relevant to selecting the gilt and can be coordinated in line with specific breeding events in the batch.

How many gilts do I need for this batch of pigs?

If the number of gilts are to be calculated when the batch is at 10/11 weeks, this calculator can be of help.

The yellow boxes can be customised to suit your farm

How many females are presumed

Plumber pregnant at 10/11 weeks of gestation?

Number of these animals likely to be bred?

18 Note these have to be made available i.e. not lame, no mastitis, no age issues in the correct breeding week no breeding issues

N	lumber (of farrowing places per batch?	20											
		Farrowing rate %	82	%										
		Batch time	1	weeks										
	25	Number of breeding females required per batch												
	5	Number of breeding gilts at about 95 kg required per batch												
	2	Number of gilts at about 95kg requiexcess of normal per batch												
	2	Expected number of sows returning to breeding per batch												
	36	Estimated size of the gilt pool 95kg plus, if no problems												
	60	Required size of gilt pool 95kg plus, if this batch example typical												

10 weeks of isolation and an calculation including excess

This programme assumes a 9 week gilt introduction process. However, modification will be needed if you leave less time (which is unwise if you have PPRSv) or more time - by selecting gilts earlier.

Combined with previous weeks/batch results we can build an entire gilt pool

	Target	Actual		Difference	_						
This week	5			-5	Only differences less than						
Week 2	3		1st cycle	-3	zero are significant - therefore						
Week 3	3			-3	all others are ignored						
Week 4	3			-3							
Week 5	3		2nd cycle	-3							
Week 6	3			-3							
Week 7	3			-3							
Week 8	3		3rd cycle	-3							
Week 9	3			-3							
					_						
Total gilt pool	29	0		-29							
. <u></u>			General Co	mments:							
0.58 Gilts sold per week fo	r slaugh	nter	Note these	Note these are absolute minimum							
80% of gilts selected for breeding	should		Does not inc	Does not include any selection pressure							
be planned to go to slaughter			The number	The numbers required are rounded to a whole gilt							
This is not factored into the gilt po	ol requi	irements	this might b	this might be significant in batch systems							

Can I calculate how many gilts I am going to need over the next couple of months?

Yes. Using batch farrowing you can approximate the number of gilts required. This should be carefully discussed with your genetic supplier.

Using a simple approach to above, a gilt requirement calculator can be written. The example shown is a 4 week weaning weekly batch system. Other models can be found in the gilt section.

The default is set up with an example pig pregnant per week of gestation for the selected batch size, but can be easily customised to actual events on the farm.

Calculator to determine gilt requirement If the farm is batching please convert to a weekly requirement There is a default actual placed - replace with your actual numbers Once a week batch 4 week weaning Complete the yellow boxes and your farms current presumed pregnant numbers																							
Number of farrowing places per batch 20 FR% 85 * Breeding per batch 24																							
	Week of gestation - this is the diagonal on a Csum									Farrowing area									1				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	Mating]
Actual sows presumed pregnant	24	24	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Model sows presumed pregnant		23	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Assumed sows which will farrow	22	22	21	21	21	20	20	20	20	20	20												
Sows assigned for culling																							
Normal gilt requirement	3	3	3	3	3	3	3	3	3	3	3												
Gilts already in the system																							
Extra gilts required	0	0	0	0	0	0	0	0	0	0	0												
Total gilts required for the week	3	3	3	3	3	3	3	3	3	3	3												
Kg Weight of gilt required	36	41	47	53	59	65	71	78	85	92	100	Too I	ate							12	0-140	kg	1
Age of gilt required (weeks)	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	week
Age of gilt required (days)	77	84	91	98	105	112	119	126	133	140	147	154	161	168	175	182	189	196	203	210	217	224	days
Example of purchases using this model 4 weekly delivery At 80-100 kg at arrival 9 gilts required At 35-50 kg at arrival 9 gilts required 6 weekly delivery																							
At 35-65 kg at arrival	at 65-100 kg at arrival 15 gilts required 15 gilts required																						
*Calculations Reasons for failure to farrow For each 100 females bred: Regular returns Irregular returns Abortions Deaths Culls NIP	1 1 0.5	3 1 1 1 0																					
Farrowing rate %	87	85																					

Playing with the gilt pool numbers can become quite additive. But:

Gilts are the fuel that run the farm

Batch farrowing is all about an efficient gilt pool whose purpose is to supply sufficient females to ensure that the real time batch breeding target is met and the farm can practice all-in/all-out.