



Research facilities across the participating organisations

This document is to provide researchers with the necessary information for the preparation of their proposals to ensure that the base-funded facilities are used effectively and efficiently. The two discovery sites are first and then followed by the three commercial organisations.

It details the facilities and duties covered under a base experiment along with those duties which are optional extras.

The costs of the optional extras should be negotiated with the organisation on a proposal by proposal basis, and hence have not been included.

Please note that Research equivalent or RE is the agreed unit based on resource requirements for each experiment, used for reporting purposes

We will add additional information to this summary to explain how a combination of RE's can be used up to the maximum per annum in each organisation. In addition, the need to contact the organisations before submitting a proposal, as the facilities may already be fully allocated, will be emphasised.

Contact details

Roseworthy -Cameron Ralph

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APFG - Rod Hamman

CHM - Rob van Barneveld

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Roseworthy - Max 2 RE

1. Lactating & weaned sow studies

- Base expt** **8 weeks duration, 40 animals, 2-4 treatments**
- Prefarrow sow weight in, treatment allocation, ultrasound P2
 - Litter weights including piglet ID at start of induction
 - Sow weights post farrowing
 - Individual piglet weighing
 - Colostrum/milk/blood/saliva sampling
 - Some real time behavioural and other welfare observations
 - Sow feed intake
 - Some ovarian ultrasound assessment
 - Sow weaning weights ultrasound P2
 - Weaning litter weights
 - Piglet mortality and cause
 - Oestrus induction including piglet separation & boar stimulation
 - Data entry farrowing house measures and expt. management
 - Subsequent data retrieval

RE/expt 0.3
Capacity 7 expts, 280 sows/yr

2. Gestating sow studies

- Base expt** **16 weeks duration, 40 animals, 2-4 treatments**
- Start weights, treatment allocation, ultrasound P2
 - Sow treatment identification, focus sow ID
 - Pen layout changes
 - Periodic sow weights and P2
 - Blood/saliva sampling
 - Some real time behavioural and other welfare observations
 - Sow 110 d weights and ultrasound P2
 - Data entry and reproductive record retrieval
 - Expt. management

RE/expt 0.15
Capacity 6 expts, 240 sows/yr

Extra operational requirements (available at additional cost)

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

DAFWA - Max 1.5 RE

1. Weaner individual - Nutritional evaluation 21 days, health protocols, R&I specialized facility 100 pigs per experiment

Base expt 100 pigs/AIAO block, 100 pigs individual pens, group pens of 25 or 50, up to 8 treatments, 12 replicates. Maximum 21 days (5-25 kg) assessment. Controlled environment (20° to 35°C) using gas heating and evaporative cooling

- Treatment allocation, pre-trial weights
- Start weights and piglet ID
- Weekly weights, including a final weight
- Daily feeding and weekly feed intakes
- Veterinary inspections and animal welfare monitoring
- Experiment could be extended to 28 days if only using 50 pigs in larger pens

RE/Expt 0.15
Capacity 4 expts, 400 pigs/yr

Extra operational requirements (available at additional cost)

- Extra individual piglet weighing other than weekly
- Extra feed disappearance measurements
- Blood sampling
- *E. coli* dosing model
- Faecal sampling
- Euthanasia of pigs for study of gut health, plus value of pigs
- Monitoring water consumption per pen
- Monitoring of pig performance through to slaughter at approximately 100 kg LW

2. Grower-Finisher: Individual - Nutritional evaluation 42 days, suitable 20-100 kg LWt, R&I specialized facility - 64 animals per experiment

Base expt 64 individual pens. Natural ventilation, AIAO
Typically 6 treatments x 10 replicates,

- Allocation to treatments and individual identification
- Weekly weights for individual pigs
- Weekly feed intakes
- Veterinary inspections and animal welfare monitoring

RE/Expt 0.34
Capacity 5 expts, 320 pigs/yr

Extra operational requirements (available at additional cost)

- Blood samples
- Ultrasonic backfat testing
- Faecal sampling
- Euthanasia of pigs

3. Grower-Finisher: Commercial - Nutritional evaluations, amino acid dose responses, 10 weeks, health protocols, lifetime performance, suitable 20-100 kg LWt - 72 pens (7 pigs per pen) per experiment

Base expt 72 group pens, max 7 pigs/pen, 10 replicates/treatment. Up to 6 dietary treatments possible. Feedlogic feed system

- Allocation to treatments and individual identification

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

- Weekly weights for individual pigs
- Daily feed disappearance
- Veterinary inspections and animal welfare monitoring

RE/Expt 0.25
Capacity 6 expts, 3,072 pigs/yr

Extra operational requirements (available at additional cost)

- Blood samples
- Ultrasonic backfat testing
- Faecal sampling
- Euthanasia of pigs

| Facility | In-kind staff contribution per experiment (FTE) | Other non staff In-kind contribution per experiment (\$) |
|-------------------------------|---|--|
| 1. Individual weaner | Category 2 - 0.10 Category 4 - 0.10 | \$12,000 |
| 2. Individual grower/finisher | Category 2 - 0.10 Category 3 - 0.10 Category 4 - 0.10 | \$8,000 |
| 3. Commercial Grower/Finisher | Category 2 - 0.10 Category 4 - 0.10 | \$15,000 |

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

APFG - Max 3.3 RE

1. Sow model - Farrowing - Conventional or Multi-suckling/Freedom Farrowing experiments

- Base experiment:** 1a. Conventional Farrowing House, 160 animals
1b. Multisuckling/ Free Movement Farrow crates (Combi/SISO), 110 animals
- 2 to 4 Treatments per Expt
 - Prefarrow Sow Weight IN and Treatment Allocation
 - Sow Weight at end of Lactation
 - Farrowing details ie No. Born, Alive, Farrowing Dates, Litter Birth Weights
 - Litter Weights post-fostering, plus Litter Weaning Weights
 - Subsequent sow data i.e. Wean to Remate, Farrowing Data, cause of Fallout, Subsequent litter size born/alive
 - Oestrus Induction including injections, piglet separation, Boar stimulation
 - Piglet Mortality and cause
 - Data Retrieval

Base Hours 1a - 512 hours, 1b - 592 hours / expt
RE/expt 1a - 0.30, 1b -0.35
Capacity 1a - max 6 expts, 960 sows/yr, 1b - Max 10 expts, 1,100 sows/yr

Extra operational requirements (available at additional cost)

- Feed Intake measurement extra - to be costed
- Trial Sow Feed Intake - minimum if by pre-calibrated dipper
- Sow Weights at any point
- Additional Litter Weights post fostering
- Individual Piglet Weighing and ID @ (plus Tag cost)

2. Sow model - Group gestating 115 days

- Base expt** 2a. With ESF, 220 animals
2b. Group pen, no ESF, 400 animals
- Mating details and trial allocation
 - Trial diet sow feeding @ 2 diets - with ESF, can do micro additions
 - Weights at start of trial, end of gestation/end of treatment
 - Data recording of pregnancy fallout, farrowing data from herd records, spreadsheet management and data entry
 - For ESF, Commercial shed set-up, travel and liaison

Base Hours 2a - 341 hours/expt, 2b - 344 hours
RE /expt 0.2
Capacity 2a - Max 8 expts, 1,760 sows/yr, 2b - Max 5 expts, 2,000 sows/yr

Extra operational requirements (available at additional cost)

- Dietary/treatment costs
- Blood sampling
- For Group pen, Additional Diet feeding above 2
- Sow weights - additional
- Individual sow treatments and/or Activities
- Sow P@ and MMD @ 0.25 hr/sow at weighing - plus supply of machine to perform

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

3. Grower-Finisher: Commercial - Nutritional evaluations, amino acid dose responses, 14 weeks, health protocols, lifetime performance

Base experiment: large scale group Pen Feed -, 960 animals, 48 to 56 replicates

- Suitable 25-100 kg
- Experimental period of up to 14 weeks
- Feed intake and FCR records on 24 @ 40 pig replicates; with Pen Growth rate on 48 pens of 20 pigs/pen
- Ability to program feed intake including phase feeding, plus up to 4 additives per trial
- Pen treatment allocation, split or Single sex
- Initial, End and 6 week interim weights - 3 in total
- Measured P2 - Renco or equiv
- Data collection and entry to spreadsheets

Base hours : 432 hours/expt
RE/ expt 0.25 RE
Capacity Max 6 expts, 3,840 pigs/year

Extra operational requirements (available at additional cost)

- Blood sampling
- Special diets minimum 1 tonne PLUS \$1,000 per diet to mix and handle; PLUS other costs to source and handle special ingredients
- Tissue sampling (live and abattoir)
- Individual Abattoir Carcass weight, KO % and P2 measures dependant on trial and disruption to ideal Marketing - from \$3,500 to \$7,000 per expt
- Additional pen weighing

| Facility | In-kind staff contribution per experiment (FTE) | Other non staff In-kind contribution per experiment (\$) |
|---|---|--|
| 1a.Lactation oestrus induction - Farrowing House | Category 2 - 0.05 Category 4 - 0.49 | \$12,960 |
| 1b.Lactation oestrus induction - Multisuckling/ Free movement farrow crates | Category 2 - 0.05 Category 4 - 0.35 | \$24,927 |
| 2a. Sow group gestation ESF | Category 2 - 0.05 Category 4 - 0.26 | \$23,023 |
| 2b. Sow group gestation commercial | Category 2 - 0.05 Category 4 - 0.32 | \$41,860 |
| 3. Commercial Grower/Finisher | Category 2 - 0.05 Category 4 - 0.39 | \$25,200 |

CHM - Max 2.5 RE

1. Farrowing sheds - oestrus induction conventional - Intensive

Base expt 4 weeks duration, 48 sows/expt, max 4 treatment, oestrus induction over 5 days

- Prefarrow sow weight in, treatment allocation, ultrasound P2
- Sow weaning weights ultrasound P2
- Litter weights including piglet ID at start of induction
- Oestrus induction including injections, piglet separation, boar stimulation
- Weaning litter weights
- Data entry farrowing house measures and expt. management
- Piglet mortality and cause
- Data retrieval subsequent

RE/Expt 0.25

Capacity 4 expts, 192 sows/yr

Extra operational requirements (available at additional cost)

- Sow weights post farrowing
- Individual piglet weighing
- Colostrum/milk/blood/saliva sampling
- Trial diets on-costs
- Behavioural and other welfare observations
- Sow feed intake
- Ovarian ultrasound assessment

Intensive gestation investigations by negotiation, such as proposed satiety study, behaviour studies, in sow stalls or small groups.

2. Farrowing sheds - Nutritional evaluations in lactation and subsequent response

Base expt 4 treatments, 250 per treatment, 1000 sows/expt, 4 weeks with subsequent reproduction records

- Prefarrow sow weight in, treatment allocation, ultrasound P2
- Sow weaning weights ultrasound P2
- Litter weights including piglet ID post-birth
- Weaning litter weights
- Feed intake measurement
- Piglet mortality and cause
- Data retrieval subsequent
- Data entry and expt. management
- Trial diet costs

RE/Expt 1.00

Capacity 2 expts, 2000 sows/yr

Extra operational requirements (available at additional cost)

- Individual piglet weighing and ID
- Post farrowing weights and P2
- Colostrum/milk/blood/saliva sampling
- Oestrous induction procedures
- Behavioural and other welfare observations

Gilt lactation facilities 30-35 gilts per week, lactation length 21 days, two rooms (48 & 72 crates).

3. Commercial gestating sow studies group housed sows, welfare and reproduction studies

Base expt 20 pens per expt, groups of 10 sows/pen, max 2 treatments,

- Start weights, treatment allocation, ultrasound P2
- Sow treatment identification, focus sow ID
- Sow 110 day weights and ultrasound P2
- Sow feeding pen basis
- Data entry and reproductive record retrieval
- Expt. management

RE/Expt 0.50
Capacity 4 expts, 800 sows/yr

Extra operational requirements (available at additional cost)

- Blood/saliva sampling
- Periodic sow weights and P2
- Individual sow experimental treatment
- Behavioural and other welfare observations
- Birth weights
- Pen layout changes

Optional gestational facilities by negotiation as farms transition from stalls, for example, free-access stalls, different ESF configurations.

4. ESF group housed sows nutritional studies

Base expt 20 pens per expt, groups of 54/pen, max 2 treatments

- Start weights, treatment allocation, ultrasound P2
- Sow treatment identification
- Sow 110 day weights and ultrasound P2
- Sow feeding individual basis with daily changes
- Trial feed costs
- Data entry and reproductive record retrieval
- Expt. management

RE/Expt 0.52
Capacity 4 expts, 4,320 sows/yr

Extra operational requirements (available at additional cost)

- Blood/saliva sampling
- Periodic sow weights and P2
- Behavioural and other welfare observations
- Birth weights
- Pen layout changes

ESF feeder facility from 6 to 16 weeks of gestation, post mating stalls.

5. Weaner studies: Commercial - Nutritional evaluation 42 day, health protocols, lifetime performance

Base expt 10-20 pens/expt, pens of 14 weaners, 2-4 treatments/expt. Up to 4 dietary treatments and/or 2 water treatments

- Start weights, treatment allocation
- pen weights at day 21 and day 42
- Group sizes of 14 or 45, choice of facility
- Bulk feeding and welfare checks
- Feed weigh-outs at day 21 and day 42
- Trial diet costs
- Data entry

RE/Expt 0.50

Capacity 12 expts, 1,680-3,360 weaners/yr.

Extra operational requirements (available at additional cost)

- Individual piglet weighing
- Extra pen weights
- Extra FCR assessment
- Blood sampling
- Variable medication strategies
- Faecal collection
- Post mortems

Group weaner facilities, weaned at 23 days through to 4 weeks post-weaning.

6. Grower-Finisher: Commercial - Nutritional evaluations, amino acid dose responses, 8 weeks, health protocols, lifetime performance

Base expt 6a - McLean farms (MF) - 20 pens/expt, 43 pigs/pen, max 4 dietary treatments

6b - Tong Park (TP) - 20 pens/expt, 40 pigs/pen, max 4 dietary treatments

- 10-23 weeks of age
- Flexibility in diet treatments (up to 12) and medication programs
- Start pen weights, treatment allocation
- Pen feed intakes
- Mid-point weight
- Final pen weight
- Feed weigh backs mid point and end
- Carcass weight and P2 record collection
- Data entry
- Sell x age

RE/Expt 0.17

Capacity MF - 4 expts, 3,440 pigs/yr

TP - 4 expts, 3,200 pigs/yr

Extra operational requirements (available at additional cost)

- Blood sampling
- Tissue sampling (live and abattoir)
- Post-mortems
- Body composition
- Individual weights
- Individual animal treatment and ID

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

MF - Gilts from 25 kg (10 wks) through to 100 kg (23 wks)

TP - Single or mixed sex, available from 25 kg (10 wks) through to 90-100 kg (20-22 wks).

| Facility | In-kind staff contribution per experiment (FTE) | Other non staff In-kind contribution per experiment (\$) |
|---|---|--|
| 1. Lactation oestrous induction | Category 1 - 0.02 Category 3 - 0.18 | \$2,968 |
| 2. Lactation nutrition | Category 1 - 0.04 Category 3 - 0.41 | \$61,845 |
| 3. Sow group gestation commercial | Category 1 - 0.05 Category 3 - 0.45 | \$12,369 |
| 4. Sow group gestation ESF | Category 1 - 0.03 Category 3 - 0.27 | \$66,792 |
| 5. Commercial weaner | Category 1 - 0.02 Category 3 - 0.23 | \$2,500 |
| 6a. Commercial Grower/Finisher - McLean farms | Category 3 - 0.05 | \$2,430 |
| 6b. Commercial Grower/Finisher - Tong Park | Category 3 - 0.05 | \$2,430 |

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

Rivalea - Max 6 RE

1. PigSAFE pens, group lactation facilities - welfare assessment

| | |
|------------------|--|
| Base expt | 5 weeks duration including pre-farrowing, 30 sows per expt <ul style="list-style-type: none">• Prefarrow sow weight in, treatment allocation, ultrasound P2• Sow weaning weights ultrasound P2• Litter weights including piglet ID post-birth• Weaning litter weights• Data entry farrowing house measures• Piglet mortality and cause• Individual sow feed intake (PigSAFE and group lactation)• Data recording and expt. management• Data retrieval subsequent reproductive performance |
|------------------|--|

| | |
|-------------------|----------------------|
| Base hours | 175 hours/expt |
| RE/Expt | 0.09 |
| Capacity | 8 expts, 240 sows/yr |

Extra operational requirements (available at additional cost)

- Sow weights post farrowing
- Individual piglet weighing
- Colostrum/milk/blood/saliva sampling
- Trial diets on-costs
- Oestrus induction procedures
- Behavioural and other welfare observations

2. Farrowing sheds - oestrus induction conventional

| | |
|------------------|--|
| Base expt | 4 weeks duration, 120 sows/expt, 2-4 treatment, oestrus induction over 5 days <ul style="list-style-type: none">• Prefarrow sow weight in, treatment allocation, ultrasound P2• Sow weaning weights ultrasound P2• Litter weights including piglet ID at start of induction• Oestrus induction including piglet separation, boar stimulation• Weaning litter weights• Data entry farrowing house measures and expt. management• Piglet mortality and cause• Data retrieval subsequent reproductive performance |
|------------------|--|

| | |
|-------------------|----------------------|
| Base hours | 516 hours/expt |
| RE/Expt | 0.32 |
| Capacity | 8 expts, 960 sows/yr |

Extra operational requirements (available at additional cost)

- Sow weights post farrowing
- Individual piglet weighing
- Colostrum/milk/blood/saliva sampling
- Trial diets on-costs
- Behavioural and other welfare observations
- Sow feed intake
- Ovarian ultrasound assessment

3. Farrowing sheds - Nutritional evaluations in lactation and subsequent response

| | |
|------------------|--|
| Base expt | 2 treatments, 60 per treatment, 120 sows/expt, 4 weeks with subsequent reproduction records |
|------------------|--|

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

- Prefarrow sow weight in, treatment allocation, ultrasound P2
- Sow weaning weights ultrasound P2
- Litter weights post-birth
- Weaning litter weights
- Individual sow feed intake measurement
- Piglet mortality and cause
- Data retrieval subsequent reproductive performance
- Data entry and expt. management
- Trial diet costs

Base hours 784 hours/expt
RE/Expt 0.37
Capacity 4 expts, 480 sows/yr

Extra operational requirements (available at additional cost)

- Individual piglet weighing and ID
- Post farrowing weights and P2
- Colostrum/milk/blood/saliva sampling
- Oestrous induction procedures
- Behavioural and other welfare observations

4. Commercial gestating sow studies group housed sows, welfare and reproduction studies

Base expt 600 sows per expt, groups of 10 sows/pen, single parity studies in gestation

- Start weights, treatment allocation, ultrasound P2
- Sow treatment identification, focus sow ID
- Sow 110 day weights and ultrasound P2
- Sow feeding pen basis
- Data entry and reproductive record retrieval
- Expt. management

Base hours 393 hours/expt
RE/Expt 0.20
Capacity 6 expts, 3,600 sows/yr

Extra operational requirements (available at additional cost)

- Blood/saliva sampling
- Periodic sow weights and P2
- Individual sow experimental treatment
- Behavioural and other welfare observations
- Birth weights
- Pen layout changes

5. ESF group housed sows nutritional studies

| | |
|-------------------|--|
| Base expt | 225 sows per expt, groups of 45 or 90/pen, single parity studies in gestation, Max 2 diets/ESF <ul style="list-style-type: none">• Start weights, treatment allocation, ultrasound P2• Sow treatment identification• Sow 110 day weights and ultrasound P2• Sow feeding individual basis with daily changes• Trial feed costs• Data entry and reproductive record retrieval• Expt. management |
| Base hours | 345 hours/expt, |
| RE/Expt | 0.17 |
| Capacity | 4 expts, 900 sows/yr |

Extra operational requirements (available at additional cost)

- Blood/saliva sampling
- Periodic sow weights and P2
- Behavioural and other welfare observations
- Birth weights, farrowing house performance
- Pen layout changes

6. Weaner individual - Nutritional evaluation 21 days, health protocols, R&I specialized facility

| | |
|-------------------|---|
| Base expt | 200 pigs/AIAO block. Maximum 25 days (5-25 kg) including standard 4 days pre-trial, 21 days assessment. <ul style="list-style-type: none">• Treatment allocation, pre-trial weights• Special diets, 1 tonne minimum (standard processing and common ingredients)• Start weights and piglet ID• Weekly weights• Final weight and piglet transfer• Daily feeding and weekly feed weighouts• Data entry• Trial diet on-costs |
| Base hours | 302 hours/expt |
| RE/Expt | 0.15 |
| Capacity | 8 expts, 1,600 pigs/yr |

Extra operational requirements (available at additional cost)

- Extra individual piglet weighing other than weekly
- Blood sampling
- Small dietary parcels < 1 tonne
- Cost of specialty ingredients/ transport of speciality diets manufactured elsewhere
- Water medication treatments
- Faecal sampling

7. Weaner studies: Commercial - Nutritional evaluation 42 days, health protocols, lifetime performance

Base expt Pens of 14 weaners, 3 treatments/expt, 60 pens / experiment. 5 week assessment, 20 reps/treatment.

- Start pen weights, treatment allocation
- pen weights at day 21 and day 35
- Bulk feeding and welfare checks
- Feed weigh-outs at day 21 and day 35 (pen feed intake)
- Trial diet costs
- Data entry

Base hours 387 hours/expt

RE/Expt 0.20

Capacity 6 expts, 5,040 weaners/yr @14 pigs/pen

Extra operational requirements (available at additional cost)

- Individual piglet weighing
- Extra pen weights
- Extra FCR assessment
- Blood sampling
- Variable medication strategies (only with ok of Rivalea vet)
- Specialty ingredient/ medication costs
- Faecal collection
- Post mortems

8. Grower-Finisher: Individual - Nutritional evaluation 42 days, suitable 30-120 kg, R&I specialized facility

Base expt 20 pigs/treatment, 100 per AIAO block. Suitable from 40-120 kg livewt

- Experimental period of 5 weeks, 5 days pre-trial acclimatisation
- Pig ID and treatment allocation
- Start weights and P2
- 2 mid point weights and P2
- Final weights and P2
- Feed weigh outs
- Carcass weight and P2 data collection
- Daily feeding
- Trial diet on-costs
- Data entry
- Sell x age

Base hours 292 hours/expt

RE/Expt 0.15

Capacity 6 expts, 600 pigs/yr

Extra operational requirements (available at additional cost)

- Blood sampling
- Faecal collection
- Cannulation
- Tissue sampling (live and abattoir)
- Body composition
- Medication protocols

9. Grower-Finisher: Commercial - Nutritional evaluations, amino acid dose responses, 8 weeks, health protocols, lifetime performance

Base expt Two facilities (either 13 or 33 pigs/pen), 20 replicates/treatment, 80 replicates/expt.

- 14-22 weeks of age
- Experimental period of 8 weeks
- Flexibility in diet treatments and medication programs
- Groups of 13 or 33 pigs, choice of facility
- Start pen weights, treatment allocation
- Pen feed intakes
- Mid-point weight
- Final pen weight
- Feed weigh backs mid point and end
- Carcass weight and P2 record collection
- Data entry
- Sell x age

Base hours 988 hours/expt

RE/Expt 0.50

Capacity 6 expts, 6,720 pigs/yr

Extra operational requirements (available at additional cost)

- Blood sampling
- Tissue sampling (live and abattoir)
- Post-mortems
- Body composition
- Individual weights
- Individual animal treatment and ID

Base Funding agreements 2014 - Facilities, Deliverables and In-kind

| Facility | In-kind staff contribution per experiment (FTE) | Other non staff In-kind contribution per experiment (\$) |
|-------------------------------------|---|--|
| 1. PigSAFE pens and group lactation | Category 2 - 0.015 Category 4 - 0.035 | \$2,313 |
| 2. Lactation oestrous induction | Category 2 - 0.015 Category 4 - 0.035 | \$9,252 |
| 3. Lactation nutrition | Category 2 - 0.015 Category 4 - 0.035 | \$18,504 |
| 4. Sow group gestation commercial | Category 2 - 0.015 Category 4 - 0.035 | \$74,419 |
| 5. Sow group gestation ESF | Category 2 - 0.015 Category 4 - 0.035 | \$45,144 |
| 6. Individual weaner | Category 2 - 0.015 Category 4 - 0.015 | \$2,900 |
| 7. Commercial weaner | Category 2 - 0.015 Category 4 - 0.015 | \$20,462 |
| 8. Individual grower/finisher | Category 2 - 0.015 Category 4 - 0.015 | \$5,670 |
| 9. Commercial Grower/Finisher | Category 2 - 0.015 Category 4 - 0.015 | \$118,944 |