

# LattaHarris, LLP Pork Production, Cost of Production & Benchmarking Standards Report

13th Annual Report Presented by: John McNutt

### LH Pork Industry Team Consulting – Tax – Audit – Management Information

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# LH Benchmarks & Comparative – What it is and What it is Not

- → Is a confidential peer group
- → Is not a contest no bragging rights
- → Is managerial accounting
  - →Is information that managers can use to make decisions
    - →How competitive are we
    - → Where do we look to make improvement
  - →Is not perfect, includes estimates and assumptions, (90% of the way is better than 100% of nothing achieved)

# Participation in LH Comparative Report - Requirements

- Accrual financial information by stage of growth, production data provided
- →Full access by LH staff to needed information
- → Grant Permission
- → Participants from 5 states

# LH 2015 Benchmark Process

→ Summer 2016 - define estimated benchmark for the year 2015

- → Based on prior year and actual and estimated feed prices for SE Iowa,
  - → Weekly quotes
    - → Feedstuff reported prices and local elevator
    - → Apply an estimated purchasing efficiency

example: 95% of average weekly posted price for wean to finish

→ Review sales data for market hogs and market sows

- → Market weights, genetic costs adjustments
- → Review data base

### **Process - continued**

→ August Review of First Draft of 2015 Benchmarks

→ Internal LH staff

→ Consult with Industry Experts

→ Compare benchmarks with client's accrual data

- → Refine benchmarks based on observed data
  - $\rightarrow$  50<sup>th</sup> & 90<sup>th</sup> percentile, do they make sense.
- → Late summer meeting

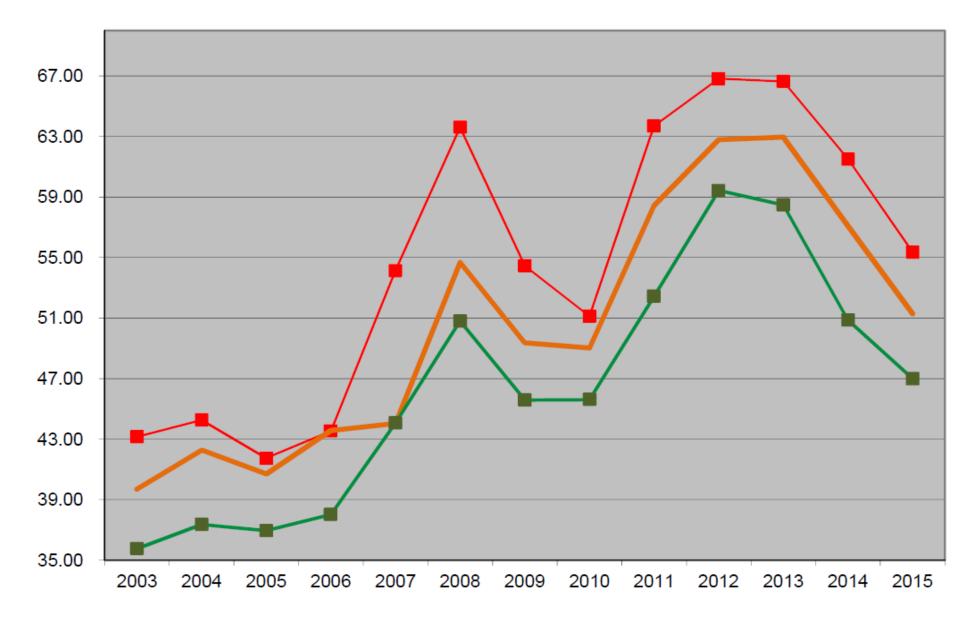
|  |                          |         | reed<br>Vean |          | Wean<br>to Finish |           |        |              | Whole<br>Herd |              |        |           |
|--|--------------------------|---------|--------------|----------|-------------------|-----------|--------|--------------|---------------|--------------|--------|-----------|
|  | \$                       | /pig    | 5            | §∕pig    | 5                 | Cwt       | \$/cwt |              | \$/cwt        |              |        | \$/cwt    |
|  |                          | eaned   |              | eaned    | Pro               | oduced    | Pro    | oduced       |               | Sold         |        | Sold      |
| CWT Gain - CWT Sold                                      |                          |         |              |          |                   | 2.67      |        | 2.67         |               | 2.80         |        | 2.80      |
|  | Cost to Produce Wean Pig |         |              |          |                   | Cost to A | dd G   | ain          | To            | tal Cost / I | Pig to | Market    |
|  |                          |         |              |          | P                 | er Cwt of | Gain,  | , <i>W-F</i> |               | Per Cwt of   | Pork   | Sold      |
|  | :                        | 50th    |              | 90th     |                   | 50th      |        | 90th         |               | 50th         |        | 90th      |
|  | Per                      | centile | Per          | rcentile | Per               | rcentile  | Pe     | rcentile     | Pe            | rcentile     | P      | ercentile |
| Labor  | \$                       | 7.01    | \$           | 5.85     | \$                | 2.98      | \$     | 2.66         | \$            | 5.47         | \$     | 4.70      |
| Facilities   |                          | 6.58    |              | 5.20     |                   | 4.76      |        | 4.23         |               | 7.02         |        | 5.97      |
| Other Expenses   |                          | 2.41    |              | 1.50     |                   | 1.51      |        | 1.25         |               | 2.34         |        | 1.75      |
| Subtotal cost normally borne by contractor               |                          | 16.00   |              | 12.55    |                   | 9.25      |        | 8.14         |               | 14.83        |        | 12.42     |
| Feed cost  |                          | 15.23   |              | 13.02    |                   | 28.88     |        | 26.79        |               | 33.25        |        | 30.39     |
| Genetics   |                          | 4.75    |              | 2.75     |                   |           |        |              |               | 1.78         |        | 1.02      |
| Vet/Med  |                          | 5.42    |              | 3.55     |                   | 1.59      |        | 1.15         |               | 3.56         |        | 2.41      |
| General and Administrative                               |                          | 1.45    |              | 0.90     |                   | 0.97      |        | 0.35         |               | 1.47         |        | 0.67      |
| Interest Expense - non facility                          |                          | 0.20    |              | -        |                   | 0.42      |        | 0.07         |               | 0.47         |        | 0.07      |
| Estimated 12 Months Ending 12/31/15                      | \$                       | 43.05   | \$           | 32.77    | \$                | 41.11     | \$     | 36.50        | \$            | 55.36        | \$     | 46.98     |
| Breakeven Carcass Price Needed @ 75% Yield, y/e 12/31/15 |                          |         |              |          |                   |           |        |              | \$            | 73.81        | \$     | 62.64     |

#### Y/E 12/31/15 ESTIMATED Benchmarks - 50th & 90th Percentile Final

Adjustment for Year End - Due to Change in Corn & SBM Prices

Average Estimated Corn Cost \$ 3.67 / Bu, decrease by \$ .57/bu. from the 2014 cost of \$4.24/bu. Average Estimated Bean Meal \$ 331/ Ton Down by \$143/ton from the 2014 cost of \$474/ton

### **Benchmark Cost - Farrow to Finish 13 Year History**



# How the Benchmarks Add Up, 90<sup>th</sup> Percentile Example

Cost of weaned pig @ 13 lbs.

= \$32.77/(1-death loss, 4%)

= \$32.77/.96= <u>\$34.14</u>

### Cost of a weaned pig sold \$34.14 + Cost of Gain \$97.45

= <u>\$131.59</u>

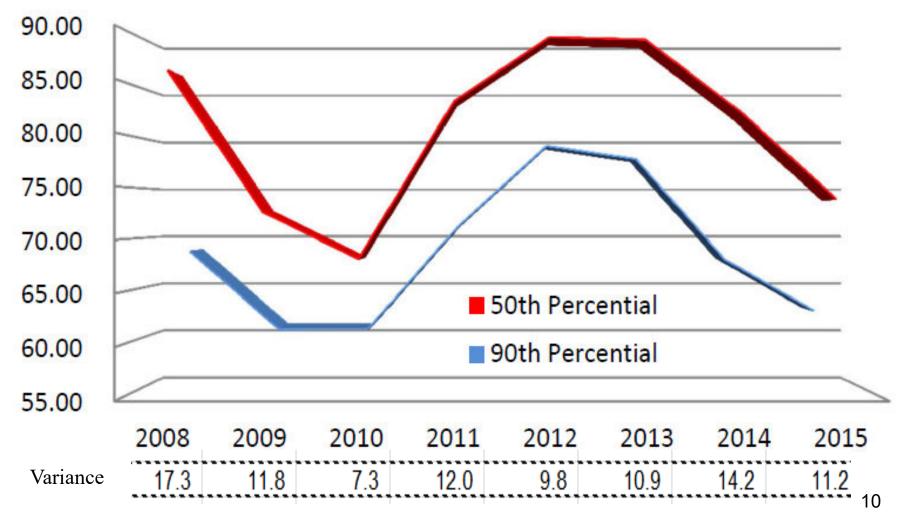
Cost of Gain Market Weight 280 pounds 280-13 = 267 pounds of gain 267/100 = 2.67 CWT. of Gain

= \$36.50\* 2.67 = **<u>\$97.45</u>** 

Divided by CWT. sold 280/100 = 2.80 CWT. Sold \$131.59 / 2.80 = <u>~ \$46.98</u> Cost/CWT. Pork Sold 90<sup>th</sup> percentile

# Rate of Change 50<sup>th</sup> & 90<sup>th</sup> Percentile

### **Breakeven Carcass Price**



### 2015 Benchmark Observations Comparing 2015 to 2014

→ Breed to Wean Cost per Pig Weaned 107% & 103% respectively

→ 50<sup>th</sup> Percentile Cost per Pig Weaned up \$ 2.70 to \$ 43.05

- → 90<sup>th</sup> Percentile Cost per Pig Weaned up \$ 0.96 to \$ 32.77
- Wean to Finish Cost per Cwt. of Gain 85% & 89% respectively
   > 50<sup>th</sup> Percentile Cost per Cwt. of Gain down \$ 7.50 to \$ 41.11
   > 90<sup>th</sup> Percentile Cost per Cwt. of Gain down \$ 4.42 to \$ 36.50
- Whole Herd Cost per Cwt. Pork Sold 90% & 92% respectively
  50<sup>th</sup> Percentile Cost per Cwt. Sold down \$ 6.15 to \$ 55.36/Cwt.
  90<sup>th</sup> Percentile Cost per Cwt. Sold down \$ 3.88 to \$ 46.98/Cwt.

### **Comparative Cost of Production Breed to Wean Units, Report Method**

→ Inventory change is in the divisor

- → Divisor is "Pigs Produced Complete Equivalent"
- → Costs are presented in a LHHP modified "NPPC Financial Standard" format
  - ➔ Facilities, labor and other operating reported as "Cost Normally Borne By Contractor". This allows comparability between farms.
  - → Genetics include semen, breeding supplies, royalties, sow depreciation, (gain) loss on sale or death. Breeding stock development costs are capitalized.
    - → Example of allocation of capitalized cost; 7% labor, 12% facilities, 4% other, 73% feed, & 4% vet
  - → Feed includes grind, mix and delivery
    - $\rightarrow$  Other costs may be adjusted to add a standard charge of \$12/Ton
- → Totals are presented before general and administrative & before finance
- → Marketing costs are treated as deductions from revenue
- → The reported numbers may not total, the reported metrics are averages and non conforming data points may not be displayed.

### **Breed To Wean: (detail - see page 17)** 80,200 + sows, 2.02 million pigs, Avg. 25.23 pigs/sows/year

- → Average cost to produce wean pig: \$36.68
- → Farms: 20
  - → Range: \$ 28.61 to \$43.80
  - → Spread: \$ 15.19 2014 & 2013 it was \$ 20.50 & \$15.04 per pig
- → Labor/Facilities/Other: Range \$ 11.46 to \$19.38
- → Genetics: Range \$ 2.14 to \$ 7.48
- → Feed: Range \$ 9.93 to \$ 17.05
- $\rightarrow$  Veterinary: Range \$1.04 to \$6.32
- → Of the 10 herds with costs lower than the average of \$36.68, 4 < 3,000 & 6 > 3,000 sows

### Comparative Cost of Production for 2015 Breed to Wean Units Cost per Pig Produced – Complete Equivalent

| I O  | 2015 Average<br>less than 3,000<br>sows | 2015 Average greater than 3,000 sows | ■<br>Benchmark – 50 <sup>th</sup><br>Percentile | Benchmark – 90 <sup>th</sup><br>Percentile |
|--|---|--------------------------------------|---|--|
| Expenses:  |   |                                      |   |  |
| Personnel  | 7.51                                    | 5.73                                 | 7.01  | 5.85                                       |
| Facilities   | 4.94                                    | 6.56                                 | 6.58  | 5.20                                       |
| Other Operating  | 2.04                                    | 1.78                                 | 2.41  | 1.50                                       |
| Total of Labor, Facilities, and Other Costs<br>Normally borne by Contractors | 14.49                                   | 14.08                                | 16.00   | 12.55                                      |
| Genetics   | 4.24                                    | 3.98                                 | 4.75  | 2.75                                       |
| Feed   | 13.21                                   | 12.92                                | 15.23   | 13.02                                      |
| Veterinary/Medicine  | 3.75                                    | 3.86                                 | 5.42  | 3.55                                       |
| Total Cost of Production before Administrative & Finance                     | 35.69                                   | 35.09                                | 41.40   | 31.87                                      |
| Administrative   | 1.35                                    | .98                                  | 1.45  | 0.90                                       |
| Total Cost of Production before Finance                                      | 37.05                                   | 36.03                                | 42.85   | 32.77                                      |
| Interest – non-facility  | 0.07                                    | 0.16                                 | 0.20  |  |
| Total Cost of Production (per pig) *   | 37.11                                   | 36.20                                | 43.05   | 32.77                                      |
|  |   |                                      |   | 4.4  |

\* Average Columns May Not Total – Metrics are Averages

#### Comparative Cost of Production Breed to Wean Units Compare 2015 to 2014 Cost per Pig Produced – Complete Equivalent

| I O   | 2015 Average less than 3,000 sows | 2015 Average<br>greater than<br>3,000 sows | 2014 Average<br>less than 3,000<br>sows | 2014 Average greater<br>than 3,000 sows |
|---|-----------------------------------|--|---|---|
| Expenses:   |                                   |  |   |   |
| Personnel   | 7.51                              | 5.73                                       | 6.79                                    | 6.14                                    |
| Facilities  | 4.94                              | 6.56                                       | 5.19                                    | 8.02                                    |
| Other Operating   | 2.04                              | 1.78                                       | 2.53                                    | 1.71                                    |
| Total of Labor, Facilities, and Other Costs Normally borne by Contractors | 14.49                             | 14.08                                      | 14.51                                   | 15.88                                   |
| Genetics  | 4.24                              | 3.98                                       | 1.38                                    | 1.98                                    |
| Feed  | 13.21                             | 12.92                                      | 15.11                                   | 14.54                                   |
| Veterinary/Medicine   | 3.75                              | 3.86                                       | 3.99                                    | 3.70                                    |
| Total Cost of Production before Administrative & Finance                  | 35.69                             | 35.09                                      | 35.00                                   | 36.10                                   |
| Administrative  | 1.35                              | 0.98                                       | 1.46                                    | .84                                     |
| Total Cost of Production before Finance                                   | 37.05                             | 36.03                                      | 36.45                                   | 36.94                                   |
| Interest – non-facility   | 0.07                              | 0.16                                       | 015                                     | 0.34                                    |
| Total Cost of Production (per pig) *                                      | 37.11                             | 36.20                                      | 36.60                                   | 37.28                                   |
| *Average Columns May Not Total –<br>Metrics are averages.                 | \$0.91/ PIG less                  | s > 3000 sows                              | \$0.68 / PIG                            | less < 3000 sows <sub>15</sub>          |

#### **Comparative Cost of Production** Breed to Wean Units, Compare 2015 to 2014, Cost per sow

|  |                                    | 2                         | 015                                   |                           | 2                            | 014                             |
|--|------------------------------------|---------------------------|---------------------------------------|---------------------------|------------------------------|---------------------------------|
|  | Average less<br>than 3,000<br>sows | Year to<br>year<br>change | Average<br>greater than<br>3,000 sows | Year to<br>year<br>change | Average less than 3,000 sows | Average greater than 3,000 sows |
| Pigs/Inventoried Sow/Year  | 23.66                              | 102%                      | 25.35                                 | 111%                      | 23.76                        | 22.81                           |
| Expenses:  |                                    |                           |                                       |                           |                              |                                 |
| Personnel  | 181.07                             | 111%                      | 141.06                                | 101%                      | 163.28                       | 139.84                          |
| Facilities   | 115.12                             | 93%                       | 166.30                                | 91%                       | 124.39                       | 181.95                          |
| Other Operating  | 48.93                              | 80%                       | 45.20                                 | 119%                      | 61.17                        | 38.04                           |
| Total of Labor, Facilities, and Other<br>Costs Normally borne by Contractors | 345.12                             | 99%                       | 352.56                                | 98%                       | 348.85                       | 359.82                          |
| Genetics   | 102.05                             | 305%                      | 90.69                                 | 201%                      | 33.41                        | 45.01                           |
| Feed   | 306.08                             | 85%                       | 287.67                                | 86%                       | 359.54                       | 333.07                          |
| Veterinary/Medicine  | 88.82                              | 94%                       | 86.78                                 | 105%                      | 94.75                        | 82.46                           |
| Total Cost of Production before G&A & Finance                                | 842.08                             | 101%                      | 817.70                                | 100%                      | 836.55                       | 820.36                          |
| Administrative   | 32.82                              | 95%                       | 23.63                                 | 121%                      | 34.72                        | 19.49                           |
| Total Cost of Production before Finance                                      | 874.90                             | 100%                      | 841.33                                | 100%                      | 871.28                       | 839.85                          |
| Interest – non-facility  | 1.20                               | 33%                       | 4.19                                  | 60%                       | 3.67                         | 7.03                            |
| Total Cost of Production (per pig)   | 876.10                             | 100%                      | 845.52                                | 100%                      | 874.94                       | 846.89                          |
| *Average Columns May Not<br>Total-Metrics are Averages                       | \$30.58 / Sov                      | w higher c                | $\cos t < 3000 \text{ sov}$           | VS                        | \$28.05 / Sow D              | ifference 2014 16               |

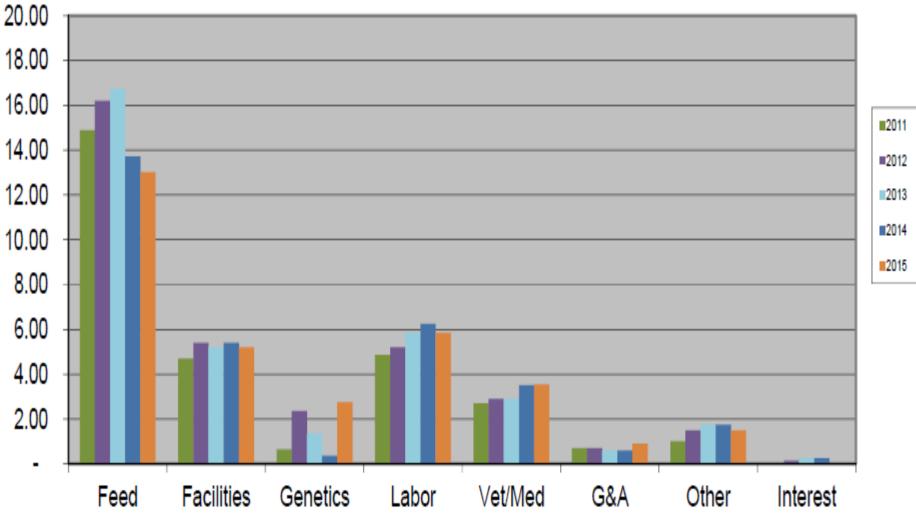
|                  |              |                    |                     |             |               |                |            |           | ]                           |             |                   |                             |
|------------------|--------------|--------------------|---------------------|-------------|---------------|----------------|------------|-----------|-----------------------------|-------------|-------------------|-----------------------------|
| 2015 Com         |              |                    |                     |             |               | ows in Compari | ison       | 80,222    |                             |             |                   | I                           |
| Cost per P       | ig Produc    | ed Comple          | ete Equiva          | lent        | Number of W   | /eaned Pigs    |            | 2,024,263 | 25.23                       | p/s/y avg/t | arm               | Sorted By:                  |
|                  |              |                    |                     |             |               |                |            |           |                             |             |                   | Sorted by.                  |
| Sow Herd<br>Size | Farm<br>Code | Total<br>Personnel | Total<br>Facilities | Total Other | Cost borne by | Total Genetics | Total Food | Total Vet | Total b4 G& A<br>& Interest | Total G&A   | Total<br>Interest | Total Cost of<br>Production |
| 5120             | coue         | Personner          | Facilities          | Total Other | contractor    | Total Genetics | Total Peeu | Total vet | de interest                 | Total GaA   | interest          | Production                  |
| < 3000           | R            | 5.49               | 5.14                | 1.65        | 12.28         | 2.61           | 11.54      | 1.04      | 27.47                       | 1.14        | -                 | 28.61                       |
| < 3000           | 1            | 8.58               | 4.89                | 2.02        | 15.49         | 2.22           | 10.15      | 2.29      | 30.15                       | 0.67        | 0.11              | 30.93                       |
| > 3000           | к            | 6.82               | 4.38                | 1.02        | 12.22         | 3.67           | 11.92      | 2.99      | 30.80                       | 0.43        | 0.01              | 31.24                       |
| > 3000           | G            | 3.85               | 8.06                | 2.78        | 14.69         | 4.28           | 9.93       | 3.35      | 32.25                       | 0.22        | -                 | 32.47                       |
| 90th Percer      | ntile        | 5.85               | 5.20                | 1.50        | 12.55         | 2.75           | 13.02      | 3.55      | 31.87                       | 0.90        | -                 | 32.77                       |
| < 3000           | D            | 6.68               | 5.31                | 2.22        | 14.21         | 4.59           | 10.43      | 2.92      | 32.15                       | 1.65        | 0.02              | 33.82                       |
| > 3000           | F            | 4.51               | 8.85                | 2.56        | 15.92         | 3.97           | 10.41      | 3.75      | 34.05                       | 0.15        | -                 | 34.20                       |
| < 3000           | т            | 11.34              | 2.62                | 0.36        | 14.32         | 3.20           | 14.16      | 1.95      | 33.63                       | 0.63        | -                 | 34.26                       |
| Average - 1/2 St | andard Devia | 5.68               | 4.87                | 1.58        | 13.40         | 3.43           | 11.98      | 3.09      | 33.54                       | 0.77        | (0.03)            | 34.69                       |
| > 3000           | Р            | 5.20               | 5.26                | 1.47        | 11.93         | 4.92           | 13.07      | 4.79      | 34.71                       | 0.10        | 0.08              | 34.89                       |
| > 3000           | 0            | 4.72               | 10.63               | 1.04        | 16.39         | 2.14           | 12.89      | 2.02      | 33.44                       | 3.12        | 0.03              | 36.59                       |
| > 3000           | Q            | 7.38               | 7.21                | 1.25        | 15.84         | 7.48           | 9.96       | 2.60      | 35.88                       | 0.72        | 0.08              | 36.68                       |
| Average          |              | 6.64               | 5.84                | 1.94        | 14.42         | 4.12           | 13.07      | 3.80      | 35.41                       | 1.16        | 0.12              | 36.68                       |
| > 3000           | м            | 5.96               | 4.89                | 1.70        | 12.55         | 2.70           | 15.67      | 4.27      | 35.19                       | 1.54        | -                 | 36.73                       |
| > 3000           | В            | 5.45               | 4.67                | 1.34        | 11.46         | 2.42           | 17.05      | 4.90      | 35.83                       | 1.46        | 0.09              | 37.38                       |
| < 3000           | U            | 6.21               | 4.76                | 1.87        | 12.84         | 5.79           | 13.70      | 4.33      | 36.66                       | 1.65        | 0.05              | 38.36                       |
| Average -+1/2 S  | tandard Devi | 7.60               | 6.80                | 2.29        | 15.43         | 4.81           | 14.16      | 4.51      | 37.28                       | 1.54        | 0.28              | 38.68                       |
| < 3000           | С            | 6.63               | 4.37                | 1.77        | 12.77         | 4.83           | 13.01      | 6.32      | 36.93                       | 1.94        | 0.07              | 38.94                       |
| < 3000           | н            | 7.46               | 3.18                | 2.34        | 12.98         | 4.57           | 13.59      | 5.89      | 37.03                       | 1.88        | 0.18              | 39.09                       |
| > 3000           | E            | 6.10               | 7.86                | 2.26        | 16.22         | 4.18           | 12.28      | 5.08      | 37.76                       | 1.29        | 1.43              | 40.48                       |
| < 3000           | Α            | 6.33               | 5.04                | 2.99        | 14.36         | 4.89           | 14.99      | 5.12      | 39.36                       | 1.68        | -                 | 41.04                       |
| > 3000           | J            | 6.84               | 6.41                | 2.85        | 16.10         | 4.03           | 15.99      | 4.88      | 41.00                       | 0.36        | -                 | 41.36                       |
| < 3000           | S            | 11.54              | 5.45                | 2.39        | 19.38         | 6.38           | 12.84      | 2.77      | 41.37                       | 0.67        | 0.02              | 42.06                       |
| 50th Percer      | ntile        | 7.00               | 6.58                | 2.41        | 15.99         | 4.75           | 15.23      | 5.42      | 41.39                       | 1.45        | 0.20              | 43.04                       |
| < 3000           | L            | 6.53               | 7.65                | 2.91        | 17.09         | 4.42           | 15.32      | 5.04      | 41.87                       | 1.90        | 0.03              | 43.80                       |

### **Breed to Wean 13 Year History**

B-W 50th vs. 90th Percentile Compare with Observed



### **Breed to Wean 90th Percentile**



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### **2015 Observations on Sow Sales**

- → Average pounds sold: 481 lbs., weight up 13lbs., range 2015; 380-533 lbs, (2014; 403-528 lbs 2013; 446-506 lbs)
- → Average value cwt: \$37.20, (2014 \$70.50) range 2015 \$33.60 to \$ 41.80, (2014 \$60.05 to \$75.50)
- → Average value per head: 2015 **\$180**

**→** (2014 \$330)

- → Range: \$159 to \$201 per sow
- → Variance high to low per sow: 2015 <u>\$42</u> (2014
  \$148 2013 \$88, 2012 \$101, 2011 \$54)

### **Comparative Cost of Production Wean to Finish Units, Report Method**

- → Divisor is "Pounds Produced"
- → Inventory change is in the divisor
- → Genetic cost not included. Calculation is cost to add a pound of gain.
- → Purchase pig pounds are accounted for as an adjustment to pounds produced
- → Contract fees are allocated by percentage:
  - → Example 32% labor, 52% facilities and 16% other. To allow comparability between farms.
- → Costs are presented in a LHHP modified "NPPC Financial Standard" format.
  - ➔ Facilities, labor and other reported as "Cost Normally Borne By Contractor". This allows comparability between farms.
  - → Feed includes grind, mix and delivery
    - $\rightarrow$  Other cost may be adjusted to add a standard charge of \$12/Ton
    - → Example of allocation: 18% labor, 75% facilities, 7% other operating
- → Totals are presented before general and administrative & before finance
- → Marketing costs are treated as deductions from revenue
- → The reported numbers may not total, the reported metrics are averages and non conforming data points may not be displayed.

### Wean to Finish: (detail - see page 25)

 $\sim 548,\!244,\!000$  million pounds produced ,  $\sim 2.05$  million pigs,

→ Average cost to add 100 lbs. of gain: \$ 38.69

→ Farms: 20

→ Range: \$ 32.41 to \$ 43.10 per cwt.

- → Spread: \$ 10.69/cwt. ~ \$28.50 / pig
- → 2014 spread \$ 15.04/cwt. ~ \$ 40 per pig (- \$11.50 from 2014)
- → Labor/Facilities/Other: Range \$ 2.55 to \$ 10.37
- → Feed: Range \$ 24.99 to \$ 33.08
- $\rightarrow$  Veterinary: Range \$ 0.29 to \$ 2.50
- → The 8 herds under the average \$ 38.69 2 produce > 100,000 cwt. and 6 produce < 100,000 cwt. 100,000 CWT = 10,000,000 pounds gain = ~37,000 pigs

### **Comparative Cost of Production for 2015** Wean to Finish Units, Cost per CWT Produced

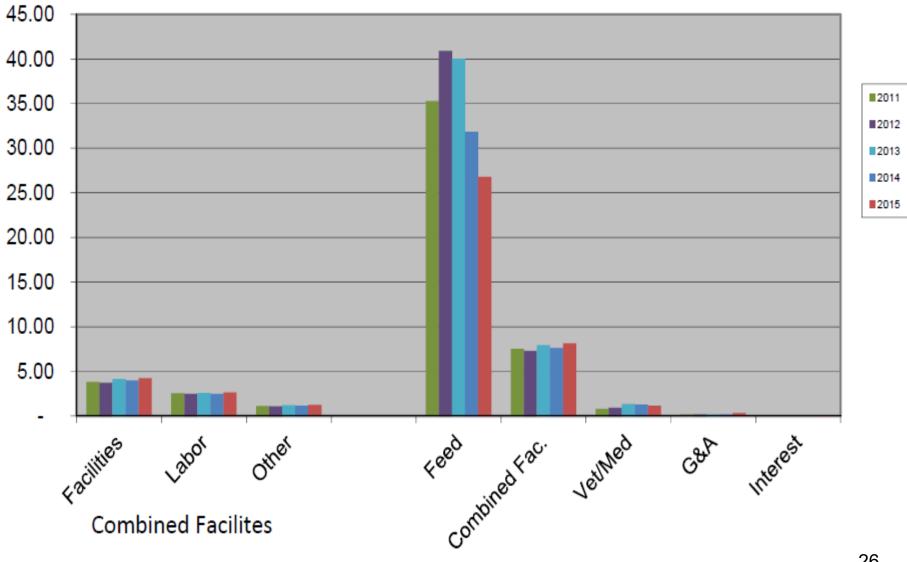
| 100,000 CWT=10 Million Pounds   | 2015 Average less<br>than 100,000<br>CWT | 2015 Average<br>greater than<br>100,000 CWT | Benchmark –<br>50 <sup>th</sup> Percentile | Benchmark – 90 <sup>th</sup><br>Percentile |
|---|--|---|--|--|
| Expenses:   |  |   |  |  |
| Personnel   | 2.22                                     | 2.78  | 2.98                                       | 2.66                                       |
| Facilities  | 4.35                                     | 4.55  | 4.76                                       | 4.23                                       |
| Other Operating   | 1.10                                     | 1.38  | 1.51                                       | 1.25                                       |
| Total of Labor, Facilities, and Other Costs Normally borne by Contractors | 7.67                                     | 8.70  | 9.25                                       | 8.14                                       |
| Genetics  | 0  | 0   | 0  | 0  |
| Feed  | 28.32                                    | 28.93                                       | 28.88                                      | 26.79                                      |
| Veterinary/Medicine   | 1.33                                     | 1.15  | 1.59                                       | 1.15                                       |
| Total Cost of Production before Administrative & Finance                  | 37.33                                    | 38.79                                       | 39.72                                      | 36.08                                      |
| Administrative  | 0.47                                     | 0.63  | 0.97                                       | 0.35                                       |
| Total Cost of Production before Finance                                   | 37.79                                    | 39.42                                       | 40.69                                      | 36.43                                      |
| Interest – non-facility   | 0.17                                     | 0.18  | 0.42                                       | 0.07                                       |
| Total Cost of Production (per cwt.)                                       | 37.96                                    | 39.60                                       | 41.11                                      | 36.50                                      |
| * Average Columns May Not Total – Metrics are Average                     | ges                                      |   |  | 23   |

### **Comparative Cost of Production Wean to Finish Units, Cost Per Hundred Weight Of Gain**

|   | Average<br>2015 | Average<br>2014 | Benchmark – 50 <sup>th</sup><br>Percentile<br>2015 | Benchmark – 90 <sup>th</sup><br>Percentile<br>2015 |
|---|-----------------|-----------------|--|--|
| Expenses:   |                 |                 |  |  |
| Personnel   | 2.47            | 2.88            | 2.98   | 2.66   |
| Facilities  | 4.44            | 4.71            | 4.76   | 4.23   |
| Other Operating   | 1.23            | 1.49            | 1.51   | 1.25   |
| Total of Labor, Facilities, and Other Costs Normally Borne by Contractors | 8.14            | 9.08            | 9.25   | 8.14   |
| Genetics  | 0               | 0               | 0  | 0  |
| Feed  | 28.60           | 32.68           | 28.88  | 26.79  |
| Veterinary/Medicine   | 1.25            | 1.29            | 1.59   | 1.15   |
| Total Cost of Production before G&A & Finance                             | 37.98           | 43.05           | 39.72  | 36.08  |
| Administrative  | 0.54            | 0.56            | 0.97   | 0.35   |
| Total Cost of Production before Finance                                   | 38.52           | 43.61           | 40.69  | 36.43  |
| Interest  | 0.17            | 0.38            | 0.42   | 0.07   |
| Total Cost of Production (per cwt.) *                                     | 38.69           | 43.99           | 41.11  | 36.50  |

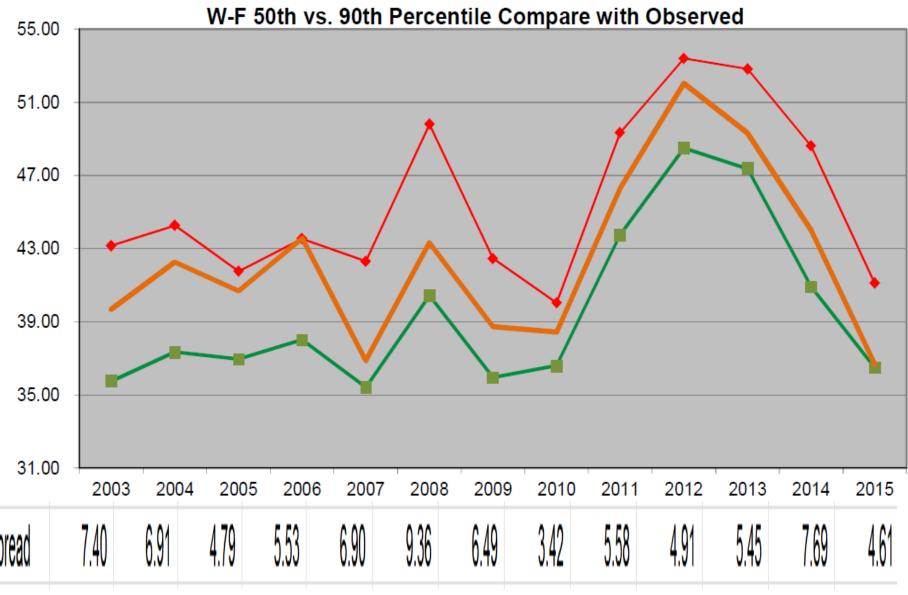
| 2015 Com         | parative -  | Wean To I | Finish                  |             | Number of P   | igs           |           | 2,053,347     |           |                |                             |
|------------------|-------------|-----------|-------------------------|-------------|---------------|---------------|-----------|---------------|-----------|----------------|-----------------------------|
| Cost per C       | WT of Gai   | in        |                         |             | Number of CW  | /T in Compari | son       | 5,482,438     |           |                |                             |
| > 100,000        | Farm        | Iotal     |                         |             | Cost borne by |               |           | Total b4 G& A |           |                | Sorted By:<br>Total Cost of |
| cwt              | Code        | Personnel | <b>Total Facilities</b> | Total Other | Contractor    | Total Feed    | Total Vet | & Interest    | Total G&A | Total Interest | Production                  |
| n                | Р           | 1.04      | 1.38                    | 0.13        | 2.55          | 29.42         | 0.29      | 32.26         | 0.15      | -              | 32.41                       |
| n                | м           | 1.92      | 5.17                    | 1.48        | 8.57          | 24.99         | 0.98      | 34.54         | 0.65      | 0.02           | 35.21                       |
| n                | к           | 2.04      | 3.65                    | 1.02        | 6.71          | 27.14         | 1.50      | 35.35         | 0.46      | -              | 35.81                       |
| n                | 0           | 2.03      | 3.20                    | 1.52        | 6.75          | 27.20         | 1.53      | 35.48         | 0.51      | -              | 35.99                       |
| 90th Percen      | tile        | 2.66      | 4.23                    | 1.25        | 8.14          | 26.79         | 1.15      | 36.08         | 0.35      | 0.07           | 36.50                       |
| у                | н           | 3.80      | 3.82                    | 1.55        | 9.17          | 26.73         | 0.79      | 36.69         | 0.16      | -              | 36.85                       |
| Average + 1/2 S  | tandard Dev | 2.04      | 3.77                    | 0.96        | 7.29          | 27.66         | 1.02      | 36.82         | 0.31      | 0.04           | 37.46                       |
| У                | F           | 0.55      | 7.04                    | 0.32        | 7.91          | 28.01         | 1.28      | 37.20         | 0.64      | 0.07           | 37.91                       |
| n                | J           | 2.23      | 6.38                    | 1.76        | 10.37         | 26.09         | 0.94      | 37.40         | 0.81      | 0.10           | 38.31                       |
| n                | т           | 2.10      | 3.97                    | 1.17        | 7.24          | 28.44         | 2.50      | 38.18         | 0.19      | -              | 38.37                       |
|                  |             | 2.47      | 4.44                    | 1.23        | 8.14          | 28.60         | 1.25      | 37.98         | 0.54      | 0.17           | 38.69                       |
| У                | S           | 2.21      | 5.20                    | 1.11        | 8.52          | 28.13         | 1.57      | 38.22         | 0.52      | 0.03           | 38.77                       |
| У                | D           | 2.62      | 4.28                    | 2.30        | 9.20          | 26.70         | 1.15      | 37.05         | 2.10      | 0.02           | 39.17                       |
| n                | Q           | 1.53      | 4.18                    | 0.77        | 6.48          | 31.50         | 1.27      | 39.25         | 0.24      | -              | 39.49                       |
| У                | E           | 3.04      | 3.67                    | 1.18        | 7.89          | 30.11         | 1.36      | 39.36         | 0.25      | 0.20           | 39.81                       |
| n                | N           | 2.65      | 3.96                    | 1.63        | 8.24          | 29.16         | 2.14      | 39.54         | 0.36      | -              | 39.90                       |
| У                | С           | 3.10      | 3.77                    | 1.25        | 8.12          | 29.65         | 1.73      | 39.50         | 0.14      | 0.27           | 39.91                       |
| Average - 1/2 St | andard Devi | 2.91      | 5.10                    | 1.50        | 8.98          | 29.53         | 2.17      | 39.15         | 0.77      | 0.30           | 39.92                       |
| У                | R           | 3.24      | 4.14                    | 2.02        | 9.40          | 28.61         | 1.19      | 39.20         | 0.56      | 0.17           | 39.93                       |
| n                | В           | 3.58      | 3.52                    | 1.12        | 8.22          | 29.75         | 0.96      | 38.93         | 0.89      | 0.54           | 40.36                       |
| n                | L           | 2.73      | 6.54                    | 0.41        | 9.68          | 28.48         | 1.78      | 39.94         | 0.36      | 0.25           | 40.55                       |
| у                | А           | 2.44      | 5.35                    | 1.34        | 9.13          | 29.34         | 0.55      | 39.02         | 1.09      | 0.69           | 40.80                       |
| 50th Percer      | tile        | 2.98      | 4.76                    | 1.51        | 9.25          | 28.88         | 1.59      | 39.72         | 0.97      | 0.42           | 41.11                       |
| n                | 1           | 2.60      | 5.84                    | 1.12        | 9.56          | 29.41         | 0.75      | 39.72         | 0.50      | 0.92           | 41.14                       |
| У                | G           | 3.99      | 3.67                    | 1.34        | 9.00          | 33.08         | 0.76      | 42.84         | 0.23      | 0.03           | 43.10                       |

#### Wean to Finish 90th Percentile



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#### **Benchmark Cost - Wean to Finish 13 Year History**



### Comparative Cost of Production Farrow to Finish Units / Whole Herd Report Method

- → Inventory change is adjusted against cost by percentage allocation. Percentage allocation determined by cost allocation prior to addition of inventory change.
- ➔ Divisor is "Pounds Sold"
- Purchased (sold) pig cost (credit) are allocated to cost categories by use of a percentage allocation method:
  - → 15% facilities, 44% feed, 15% labor, 7% genetics, 11% vet, 5% other, 3% G&A
- → Contract fees are allocated by percentage:
  - → 37% labor, 48% facilities and 15% other. To allow comparability between farms.
- → Costs are presented in a LHHP modified "NPPC Financial Standard" format
  - → Facilities, labor and other reported as "Cost Normally Borne By Contractor". This allows comparability between farms.
  - → Genetics (same as Breed to Wean)
  - → Feed (same as Wean to Finish)
- → Totals are presented before general and administrative & before finance
- → Marketing costs are treated as deductions from revenue
- The reported numbers may not total, the reported metrics are averages and non conforming data points may not be displayed.

### Breed to Finish/Whole Herd: (detail – see page 32)

→ Average cost to produce a 100 lbs. of pork: \$ 51.65

- → Farms: 14
- → Range: \$47.12 to \$57.85 per cwt
- → Spread: \$ 10.73 or \$ 30.04 per pig at 280 lbs

2014 spread \$17.18, \$48.10 at 280 lbs

- → Labor/Facilities/Other: Range \$ 9.28 to \$18.82
- → Feed: Range \$ 29.33 to \$ 38.02
- $\rightarrow$  Veterinary: Range \$1.27 to \$4.68
- → Of the 10 herds under the average cost \$ 51.65
   6 sold > 8,000,000 pounds
   4 sold < 8,000,000 pounds</li>

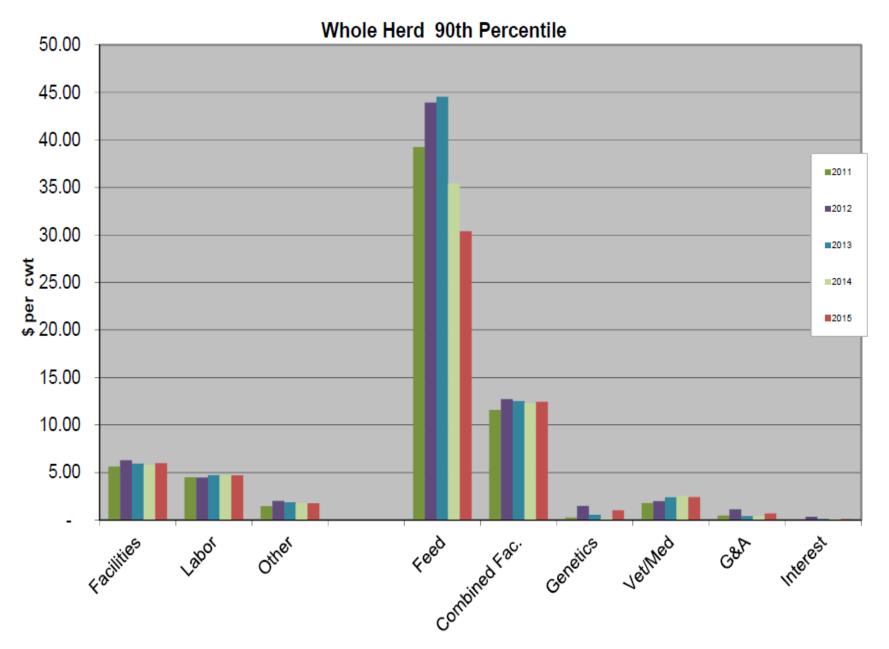
#### **Comparative Cost of Production 2015 Farrow to Finish / Whole Herd, Cost Per Hundred Weight**

|   | Average less<br>than 8 million<br>live lbs sold | Average greater<br>than 8 million<br>live lbs sold | Benchmark – 50 <sup>th</sup><br>Percentile | Benchmark – 90 <sup>th</sup><br>Percentile |
|---|---|--|--|--|
| Expenses:   |   |  |  |  |
| Personnel   | 5.23  | 4.75   | 5.47                                       | 4.70                                       |
| Facilities  | 7.64  | 7.35   | 7.02                                       | 5.97                                       |
| Other Operating   | 1.59  | 1.85   | 2.34                                       | 1.75                                       |
| Total of Labor, Facilities, and Other Costs Normally borne by Contractors | 14.47   | 13.94  | 14.83                                      | 12.42                                      |
| Genetics  | 1.46  | 1.55   | 1.78                                       | 1.02                                       |
| Feed  | 32.82   | 31.23  | 33.25                                      | 30.39                                      |
| Veterinary/Medicine   | 2.20  | 2.43   | 3.56                                       | 2.41                                       |
| Total Cost of Production before Administrative & Finance                  | 50.94   | 49.16  | 53.42                                      | 46.24                                      |
| Administrative  | 1.00  | 1.29   | 1.47                                       | 0.67                                       |
| Total Cost of Production before Finance                                   | 51.94   | 50.44  | 54.89                                      | 46.91                                      |
| Interest  | 0.30  | 0.16   | 0.47                                       | 0.07                                       |
| Total Cost of Production (per cwt.)                                       | 52.24   | 50.60  | 55.36                                      | 46.98                                      |
|   |   |  |  | 30   |

#### **Comparative Cost of Production**

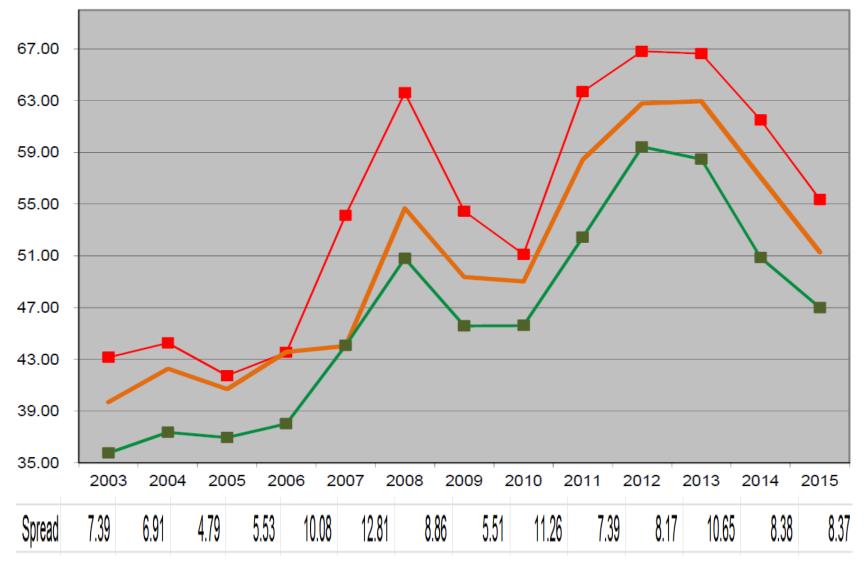
| Farrow to Finish Units/Whole<br>Herd<br>Compare 2015 to 2014<br>Cost Per Hundred Weight | 2015 Average less<br>than 8 million live<br>lbs. sold | 2015 Average<br>greater than 8<br>million live lbs.<br>sold | 2014 Average less<br>than 8 million live<br>lbs. sold | 2014 Average greater<br>than 8 million live<br>lbs. sold |
|---|---|---|---|--|
|   | 5.23  | 4.75  | 5.61  | 5.41   |
| Facilities  | 7.64  | 7.35  | 7.80  | 7.10   |
| Other Operating   | 1.59  | 1.85  | 2.03  | 2.33   |
| Total of Labor, Facilities, and Other Costs<br>Normally borne by Contractors            | 14.47   | 13.94   | 15.45   | 14.85  |
| Genetics  | 1.46  | 1.55  | 0.55  | 0.38   |
| Feed  | 32.82   | 31.23   | 37.75   | 38.07  |
| Veterinary/Medicine   | 2.20  | 2.43  | 2.13  | 2.02   |
| Death Loss Factor   | 0   | 0   | 0   | 0  |
| Total Cost of Production before<br>Administrative & Finance                             | 50.94   | 49.16   | 55.88   | 55.32  |
| Administrative  | 1.00  | 1.29  | 0.96  | 1.37   |
| Total Cost of Production before Finance   | 51.94   | 50.44   | 56.84   | 56.69  |
| Interest  | 0.30  | 0.16  | 0.26  | 0.37   |
| Total Cost of Production (per cwt)  | 52.24   | 50.60   | 57.10   | 57.06  |
|   | \$1.  | 64, \$0.58/pig  | \$ 0.0  | <sup>04, \$.01/pig</sup> 31                              |

|                  | 2015 Comp        |             |            | ish         |               | Number of CW   |            | son       | 2,980,908     |           |          |                             |
|------------------|------------------|-------------|------------|-------------|---------------|----------------|------------|-----------|---------------|-----------|----------|-----------------------------|
|                  | Cost per CV      | VT Pork Sol | d          |             |               | Number of Pig  | s Marketed |           | 1,062,905     |           |          | C                           |
|                  |                  | lotal       | lotal      |             | Cost borne by |                |            |           | lotal b4 G& A |           | lotal    | Sorted By:<br>Total Cost of |
| Lbs. Sold        | Farm Code        | Personnel   | Facilities | Total Other | Contractor    | Total Genetics | Total Feed | Total Vet | & Interest    | Total G&A | Interest | Production                  |
| 90th Percen      | tile             | 4.70        | 5.97       | 1.75        | 12.42         | 1.02           | 30.39      | 2.41      | 46.24         | 0.67      | 0.07     | 46.98                       |
| >8mil            | N                | 5.54        | 6.05       | 1.24        | 12.83         | 1.46           | 29.96      | 1.28      | 45.53         | 1.35      | 0.24     | 47.12                       |
| <8mil            | D                | 4.76        | 5.34       | 2.12        | 12.22         | 1.16           | 30.86      | 3.98      | 48.22         | 0.75      | -        | 48.97                       |
| >8mil            | С                | 5.44        | 8.10       | 2.48        | 16.02         | 0.84           | 29.49      | 1.80      | 48.15         | 1.05      | 0.15     | 49.35                       |
| <8mil            | Α                | 6.96        | 5.64       | 3.81        | 16.41         | 1.03           | 29.33      | 1.41      | 48.18         | 1.49      | -        | 49.67                       |
| <8mil            | К                | 5.83        | 3.00       | 0.45        | 9.28          | 1.20           | 37.84      | 1.46      | 49.78         | 0.44      | -        | 50.22                       |
| Average + 1/2 St | andard Deviation | 4.33        | 6.30       | 1.29        | 13.18         | 1.27           | 30.50      | 1.90      | 48.90         | 0.81      | 0.03     | 50.25                       |
| >8mil            | Н                | 5.35        | 6.10       | 1.72        | 13.17         | 1.14           | 32.99      | 2.37      | 49.67         | 0.74      | 0.05     | 50.46                       |
| >8mil            | E                | 4.23        | 8.02       | 2.55        | 14.80         | 0.80           | 29.97      | 1.84      | 47.41         | 3.15      | 0.03     | 50.59                       |
| <8mil            | В                | 5.92        | 7.36       | 2.25        | 15.53         | 2.12           | 30.14      | 2.07      | 49.86         | 0.89      | 0.05     | 50.80                       |
| >8mil            | М                | 4.17        | 7.36       | 1.93        | 13.46         | 1.78           | 30.16      | 4.68      | 50.08         | 0.67      | 0.27     | 51.02                       |
| >8mil            | F                | 3.24        | 9.64       | 0.77        | 13.65         | 2.68           | 31.56      | 2.21      | 50.10         | 0.89      | 0.10     | 51.09                       |
| Average          |                  | 4.99        | 7.52       | 1.79        | 14.30         | 1.56           | 31.97      | 2.41      | 50.24         | 1.18      | 0.22     | 51.65                       |
| Average - 1/2 St | andard Deviation | 5.65        | 8.74       | 2.30        | 15.43         | 1.85           | 33.44      | 2.92      | 51.59         | 1.55      | 0.41     | 53.04                       |
| <8mil            | 1                | 6.45        | 12.24      | 0.13        | 18.82         | 1.34           | 30.15      | 1.27      | 51.58         | 2.23      | 0.20     | 54.01                       |
| <8mil            | 1                | 4.87        | 8.59       | 1.87        | 15.33         | 1.22           | 33.39      | 3.07      | 53.01         | 0.76      | 0.34     | 54.11                       |
| >8mil            | G                | 5.24        | 6.15       | 2.25        | 13.64         | 2.18           | 34.47      | 2.86      | 53.15         | 1.17      | 0.29     | 54.61                       |
| 50th Percer      | tile             | 5.47        | 7.02       | 2.34        | 14.83         | 1.78           | 33.25      | 3.56      | 53.42         | 1.47      | 0.47     | 55.36                       |
| <8mil            | L                | 1.83        | 11.30      | 0.52        | 13.65         | 2.13           | 38.02      | 2.15      | 55.95         | 0.40      | 1.50     | 57.85                       |



### **Benchmark Cost Breed to Finish Cost per CWT**

Whole Herd 50th vs. 90th Percentile Compare With Observed



### **2015 Observations on Market Sales**

- → Average market weight: 283 lbs, *(up 2# from 2014)*
- → Average value per cwt: \$ 56.40, (\$21.81 down from 2014)
- → Average value per head: \$ 160, (down \$60.00 from 2014)
- → Average weight of "off value":169 lbs.(up 8# from 2014)
- → Average value of "off value" per head \$ 56.00

(down \$32.00 per head from 2014)

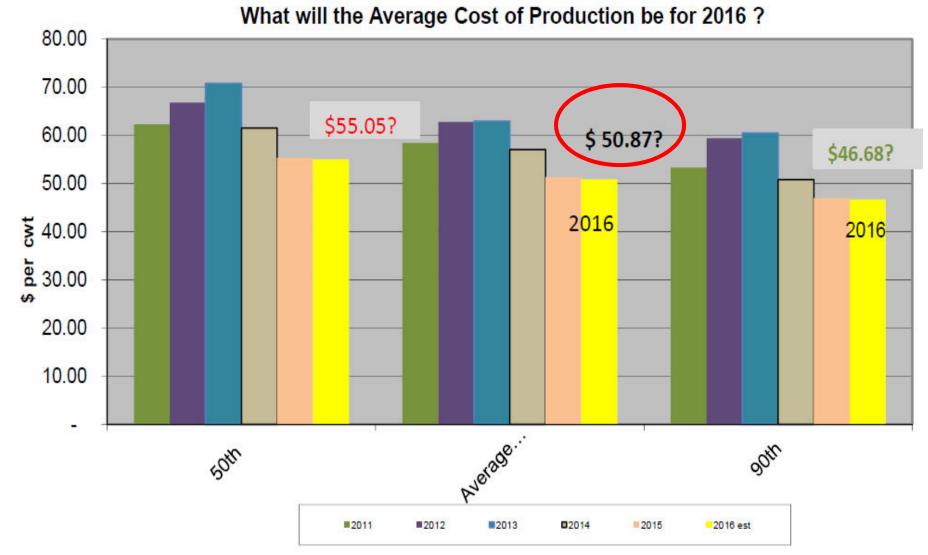
→ Percentage "off valued" 1.2%, (down 1.4%)

→ Range 1.2% - 4.6%

### **Observation on Profit Margins**

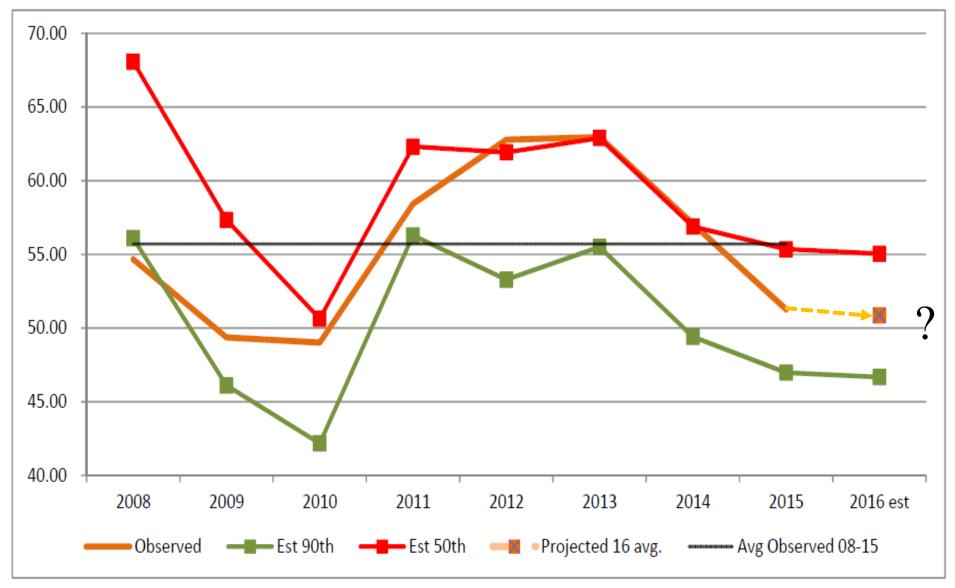
- → Average net revenue per head: \$160
  - (2014, \$220, \$78.21 2013, \$183, \$66.97 per Head & CWT Sold)
  - → Net \$56.68 per CWT
  - → Range \$ 142 to \$ 168, spread \$ 26 per head (2014 \$37)
  - → Market weight range 269 to 289 (2014 277 to 289)
- → 50<sup>th</sup> percentile cost \$ 155.26 per head
  - → Average Potential Profit per head ~ \$ 4.70
  - →90<sup>th</sup> percentile cost \$131.74 per head
  - → Average Potential Profit per head ~ \$ 28.26
- Spread Potential @ average revenue & 90<sup>th</sup> percentile cost = \$23.50 /pig sold 4yr avg > \$25 (Spread 90<sup>th</sup> to 50<sup>th</sup> in 2014 \$30, 2013 \$22, 2012 \$28)

# Total B-F COP, What is the estimated cost for 2016?



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### **Future Estimated Benchmarks Compared to Observed**



|  |     | to W          | eed<br>Vean |                |            | to Fi          |                    |        |                           | H          | hole<br>erd |                |
|--|-----|---------------|-------------|----------------|------------|----------------|--------------------|--------|---------------------------|------------|-------------|----------------|
|  |     | Vpig<br>eaned |             | 8/pig<br>eaned |            | Vcwt<br>oduced | \$/cwt<br>Produced |        | \$/cwt<br>Sold            |            |             | \$/cwt<br>Sold |
|  |     | eanea         | ~           | eanea          | Fre        | aucea          | Fr                 | oaucea | ·                         | 5010       |             | 5010           |
| CWT Gain - CWT Sold                                      |     |               |             |                |            | 2.67           |                    | 2.67   |                           | 2.80       |             | 2.80           |
|  | Cos | t to Produ    | ice W       | ean Pig        |            | Cost to A      | ldd G              | ain    | Total Cost / Pig to Marke |            |             |                |
|  |     |               |             |                | P          | er Cwt of      | Gain               | , W-F  |                           | Per Cwt oj | f Por       | k Sold         |
|  | :   | 50th          |             | 90th           |            | 50th           |                    | 90th   |                           | 50th       |             | 90th           |
|  | Per | centile       | Percentile  |                | Percentile |                | Percentile         |        | Percentile                |            | Percentile  |                |
| Labor  | \$  | 7.01          | \$          | 5.85           | \$         | 2.98           | \$                 | 2.66   | \$                        | 5.47       | \$          | 4.70           |
| Facilities   |     | 6.58          |             | 5.20           |            | 4.76           |                    | 4.23   |                           | 7.02       |             | 5.97           |
| Other Expenses   |     | 2.41          |             | 1.50           |            | 1.51           |                    | 1.25   |                           | 2.34       |             | 1.75           |
| Subtotal cost normally borne by contractor               |     | 16.00         |             | 12.55          |            | 9.25           |                    | 8.14   |                           | 14.83      |             | 12.42          |
| Feed cost  |     | 15.31         |             | 13.08          |            | 28.52          |                    | 26.46  |                           | 32.94      |             | 30.09          |
| Genetics   |     | 4.75          |             | 2.75           |            |                |                    |        |                           | 1.78       |             | 1.02           |
| Vet/Med  |     | 5.42          |             | 3.55           |            | 1.59           |                    | 1.15   |                           | 3.56       |             | 2.41           |
| General and Administrative                               |     | 1.45          |             | 0.90           |            | 0.97           |                    | 0.35   |                           | 1.47       |             | 0.67           |
| Interest Expense - non facility                          |     | 0.20          |             | -              |            | 0.42           |                    | 0.07   |                           | 0.47       |             | 0.07           |
| Estimated 12 Months Ending 12/31/16                      | \$  | 43.13         | \$          | 32.83          | \$         | 40.75          | \$                 | 36.17  | \$                        | 55.05      | \$          | 46.68          |
| Breakeven Carcass Price Needed @ 75% Yield, y/e 12/31/16 |     |               |             |                |            |                |                    |        | \$                        | 73.40      | \$          | 62.24          |

#### Y/E 12/31/16 ESTIMATED Benchmarks - 50th & 90th Percentile as of 8/17/2016

Adjustment for Year End - Due to Change in Corn & SBM Prices

Average Estimated Corn Cost \$ 3.85 / Bu, increase of \$ .18/bu. from the 2015 cost of \$3.67/bu. Average Estimated Bean Meal \$ 312/ Ton Down by \$18.79/ton from the 2015 cost of \$331/ton

# **Multi-Year Comparative**

### **Breed to Wean 6 Year Average**

#### Breed to Wean Comparative

#### 6 years average, ranked by 6 year average cost of Production

Years 2010,2011,2012,2013,2014,2015

|                 |                        |                  |                         |                          |                     |                          |                    |                        |                   |                         |                   |                        | SORT             |
|-----------------|------------------------|------------------|-------------------------|--------------------------|---------------------|--------------------------|--------------------|------------------------|-------------------|-------------------------|-------------------|------------------------|------------------|
| ID              | Avg Sow ><br>2000 Head | Average<br>P/S/Y | Average of<br>Personnel | Average of<br>Facilities | Average of<br>Other | Average of<br>contractor | Average of<br>Feed | Average of<br>Genetics | Average of<br>Vet | Average of<br>sub total | Average of<br>G&A | Average of<br>Interest | Average of total |
| Q               | Y                      | 24.2             | 6.50                    | 7.00                     | 1.10                | 14.60                    | 11.51              | 2.52                   | 2.24              | 30.87                   | 0.58              | 0.40                   | 31.85            |
| 90th Percentile |                        |                  | 5.57                    | 5.09                     | 1.66                | 12.31                    | 14.10              | 1.60                   | 3.11              | 31.12                   | 0.78              | 0.14                   | 32.05            |
| I.              | Ν                      | 25.3             | 6.88                    | 4.92                     | 2.83                | 14.64                    | 13.90              | 1.51                   | 2.21              | 32.25                   | 1.01              | 0.22                   | 33.49            |
| Κ               | Y                      | 23.6             | 6.02                    | 5.54                     | 0.74                | 12.31                    | 15.82              | 2.22                   | 3.66              | 34.01                   | 0.20              | 0.00                   | 34.22            |
| D               | Ν                      | 23.4             | 6.79                    | 4.71                     | 1.96                | 13.45                    | 13.47              | 2.89                   | 3.02              | 32.84                   | 1.60              | 0.05                   | 34.49            |
| В               | Y                      | 23.0             | 5.34                    | 4.66                     | 0.91                | 10.90                    | 17.21              | 1.52                   | 4.42              | 34.06                   | 1.57              | 0.08                   | 35.70            |
| Average         |                        | 24.08            | 5.94                    | 5.73                     | 1.88                | 13.55                    | 14.67              | 2.80                   | 3.45              | 34.54                   | 1.17              | 0.25                   | 35.95            |
| 0               | Y                      | 24.1             | 4.40                    | 10.12                    | 1.24                | 15.76                    | 14.35              | 2.40                   | 1.81              | 34.31                   | 1.75              | 0.34                   | 36.42            |
| Р               | Y                      | 21.6             | 5.27                    | 7.24                     | 1.90                | 14.41                    | 14.60              | 3.57                   | 3.47              | 36.04                   | 0.11              | 0.55                   | 36.70            |
| J               | Y                      | 22.3             | 5.76                    | 5.27                     | 2.10                | 13.13                    | 16.26              | 2.89                   | 4.08              | 36.35                   | 0.25              | 0.17                   | 36.76            |
| М               | Y                      | 22.1             | 5.34                    | 5.64                     | 1.32                | 12.30                    | 16.84              | 2.01                   | 4.07              | 35.23                   | 1.54              | 0.05                   | 36.82            |
| С               | Ν                      | 23.5             | 6.36                    | 4.20                     | 1.78                | 12.34                    | 15.36              | 3.47                   | 4.84              | 36.01                   | 1.93              | 0.23                   | 38.17            |
| L               | Ν                      | 24.8             | 5.80                    | 5.83                     | 2.49                | 14.12                    | 15.00              | 3.62                   | 4.08              | 36.81                   | 1.98              | 0.14                   | 38.92            |
| А               | Ν                      | 23.2             | 5.96                    | 4.77                     | 2.57                | 13.30                    | 16.91              | 2.40                   | 4.77              | 37.38                   | 1.67              | 0.16                   | 39.18            |
| Н               | Ν                      | 22.9             | 7.10                    | 3.63                     | 2.28                | 13.01                    | 16.03              | 2.49                   | 6.15              | 37.68                   | 1.79              | 0.35                   | 39.81            |
| 50th Percentile |                        |                  | 6.15                    | 6.32                     | 2.35                | 14.81                    | 15.86              | 3.31                   | 4.23              | 38.21                   | 1.38              | 0.37                   | 39.95            |

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# Wean to Finish 5 Year Averages

#### Wean to Finish Comparative

| 5 years average 2011,2012,2013,2014,2015 |                        |                          |                     |                          |                    | Greater than 2         | 00,000 CWT Sol    | d                       |                   |                       |                                   |
|--|------------------------|--------------------------|---------------------|--------------------------|--------------------|------------------------|-------------------|-------------------------|-------------------|-----------------------|-----------------------------------|
|  | Average of<br>Personel | Average of<br>Facilities | Average of<br>Other | Average of<br>contractor | Average of<br>Feed | Average of<br>Genetics | Average of<br>Vet | Average of<br>sub total | Average of<br>G&A | Average of<br>Interet | Sorted by:<br>Average of<br>total |
| b90                                      | 2.55                   | 3.97                     | 1.17                | 7.70                     | 34.37              | -                      | 1.10              | 43.17                   | 0.22              | 0.01                  | 43.41                             |
| С  | 2.48                   | 3.43                     | 1.09                | 7.01                     | 34.20              | -                      | 1.94              | 43.15                   | 0.10              | 0.50                  | 43.74                             |
| J  | 2.43                   | 6.42                     | 1.51                | 10.38                    | 33.58              | -                      | 0.77              | 44.73                   | 0.60              | 0.12                  | 45.45                             |
| F  | 2.47                   | 4.27                     | 1.20                | 7.94                     | 35.57              | -                      | 1.14              | 44.64                   | 0.47              | 0.35                  | 45.46                             |
| D  | 2.48                   | 3.99                     | 2.19                | 8.66                     | 33.95              | -                      | 0.87              | 43.48                   | 1.94              | 0.28                  | 45.70                             |
| AV                                       | 2.62                   | 4.55                     | 1.31                | 8.48                     | 35.38              | -                      | 1.19              | 45.05                   | 0.59              | 0.43                  | 46.05                             |
|  | 2.16                   | 5.79                     | 0.86                | 8.81                     | 35.40              | -                      | 0.67              | 44.88                   | 0.53              | 0.94                  | 46.36                             |
| Т  | 1.67                   | 3.92                     | 1.29                | 6.88                     | 36.75              | -                      | 2.60              | 46.23                   | 0.19              | 0.03                  | 46.45                             |
| E  | 2.90                   | 4.16                     | 1.42                | 8.48                     | 36.99              | -                      | 1.09              | 46.56                   | 0.19              | 0.15                  | 46.89                             |
| В  | 3.54                   | 3.31                     | 0.96                | 7.82                     | 37.24              | -                      | 0.72              | 45.70                   | 0.99              | 0.93                  | 47.61                             |
| Α  | 2.76                   | 5.54                     | 1.21                | 9.50                     | 36.62              | -                      | 0.92              | 47.04                   | 0.81              | 0.81                  | 48.66                             |
| b50                                      | 3.32                   | 5.07                     | 1.66                | 10.05                    | 36.11              | -                      | 1.35              | 47.51                   | 0.72              | 0.83                  | 49.06                             |
| G  | 3.60                   | 4.01                     | 1.77                | 9.37                     | 38.54              | -                      | 0.41              | 48.33                   | 0.51              | 0.60                  | 49.45                             |

### **Breed to Finish 6 Year Average**

> 8,000,000 lbs

Breed to Finish Comparative

6 years average, ranked by 6 year average cost of Production

Years 2010,2011,2012,2013,2014,2015

|         | ID        | Average of<br>Personnel | Average of<br>Facilities | Average of<br>Other | Average of<br>Contractor | Average of<br>Feed | Average of<br>Genetics | Average of<br>Vet | Average of<br>Sub total | Average of<br>G&A | Average of<br>Interest | SORT<br>Average of<br>Total |
|---------|-----------|-------------------------|--------------------------|---------------------|--------------------------|--------------------|------------------------|-------------------|-------------------------|-------------------|------------------------|-----------------------------|
| 90th Pe | ercentile | 4.54                    | 1.74                     | 5.69                | 11.98                    | 37.03              | 0.61                   | 2.17              | 51.78                   | 0.50              | 0.16                   | 52.44                       |
|         | Α         | 7.37                    | 3.36                     | 5.51                | 16.23                    | 36.32              | (0.16)                 | 1.30              | 53.70                   | 1.33              | 0.26                   | 55.29                       |
|         | н         | 4.89                    | 1.65                     | 6.24                | 12.78                    | 39.28              | 0.82                   | 2.26              | 55.13                   | 0.35              | 0.14                   | 55.61                       |
|         | F         | 4.94                    | 1.59                     | 6.78                | 13.31                    | 38.65              | 0.91                   | 1.88              | 54.75                   | 0.64              | 0.56                   | 55.94                       |
|         | В         | 5.42                    | 1.81                     | 7.33                | 14.55                    | 37.23              | 1.41                   | 1.72              | 54.90                   | 0.82              | 0.33                   | 56.05                       |
| Avera   | ge        | 5.18                    | 1.98                     | 7.01                | 14.17                    | 37.49              | 0.95                   | 2.15              | 54.74                   | 1.05              | 0.43                   | 56.23                       |
|         | E         | 4.79                    | 2.52                     | 7.48                | 14.78                    | 36.78              | 0.94                   | 1.51              | 54.00                   | 2.04              | 0.50                   | 56.54                       |
|         | D         | 4.11                    | 2.07                     | 5.48                | 11.67                    | 39.38              | 0.82                   | 3.91              | 55.77                   | 0.70              | 0.14                   | 56.62                       |
|         | G         | 4.47                    | 1.98                     | 5.66                | 12.11                    | 38.54              | 2.01                   | 2.56              | 55.22                   | 1.17              | 0.41                   | 56.80                       |
|         | С         | 5.20                    | 2.63                     | 8.11                | 15.94                    | 37.68              | 0.58                   | 1.60              | 55.80                   | 0.96              | 0.21                   | 56.97                       |
|         |           | 4.45                    | 2.26                     | 7.38                | 14.09                    | 38.72              | 1.39                   | 2.70              | 56.90                   | 1.39              | 0.50                   | 58.78                       |
| 50th Pe | ercentile | 5.48                    | 2.44                     | 7.18                | 15.09                    | 39.28              | 1.27                   | 2.85              | 58.49                   | 1.20              | 0.93                   | 60.62                       |

### **Breed to Wean 6 Year Averages, Contractor Costs**

#### **Breed to Wean Comparative Contractor Costs**

#### 6 years average, ranked by 6 year average Cost of Contractor

#### Years 2010,2011,2012,2013,2014,2015

| > 2000 He       | ad of Sows    |            |            | -          | SORT        |
|-----------------|---------------|------------|------------|------------|-------------|
|                 |               | Average of | Average of | Average of | Average of  |
| ID              | Average P/S/Y | Personnel  | Facilities | Other      | contractor  |
| В               | 23.00         | 5.34       | 4.66       | 0.91       | 10.90       |
| V               | 25.89         | 5.56       | 4.26       | 1.45       | 11.27       |
| М               | 22.12         | 5.22       | 5.79       | 1.24       | 12.25       |
| Н               | 22.09         | 5.34       | 5.64       | 1.32       | 12.30       |
| 90th Percentile |               | 5.57       | 5.09       | 1.66       | 12.31       |
| К               | 23.60         | 6.02       | 5.54       | 0.74       | 12.31       |
| С               | 23.50         | 6.36       | 4.20       | 1.78       | 12.34       |
| J               | 22.29         | 5.76       | 5.27       | 2.10       | 13.13       |
| А               | 23.24         | 5.96       | 4.77       | 2.57       | 13.30       |
| D               | 23.43         | 6.79       | 4.71       | 1.96       | 13.45       |
| Average         | 23.85         | 5.94       | 5.73       | 1.88       | 13.55       |
| L               | 24.81         | 5.80       | 5.83       | 2.49       | 14.12       |
| р               | 21.62         | 5.27       | 7.24       | 1.90       | 14.41       |
| Q               | 24.22         | 6.50       | 7.00       | 1.10       | 14.60       |
| Ι               | 25.34         | 6.88       | 4.92       | 2.83       | 14.64       |
| 50th Percentile |               | 6.15       | 6.32       | 2.35       | 14.81       |
| 0               | 24.11         | 4.40       | 10.12      | 1.24       | 15.76<br>44 |



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