Performance and Marketing 2016 National 4-H Skillathon Contest 100 points

Scenario:

Your task is to rank the boars and their associated pen of feeder hogs in order of perceived performance at the end of the feeding period. Each pen of feeder hogs is from an individual boar and performance data indexes are listed with each set of feeder hog information and data. Using the information provided please calculate performance criteria requested for the boars and pens of feeder hogs. Additionally, you are required to defend your answer in no more than 2 minutes as a team orally as you answer the final 3 questions related to performance criteria.

Boar	BF	Days	LBS	FE	TSI	LWT	SPI	MLI	Pigs/Herds
#									
1	0.00	-4.55	1.75	-0.04	138.4	2.16	97.6	107.6	256/4
2	-0.02	-4.99	2.00	-0.05	141.8	-0.32	102.0	111.8	0/0
3	-0.02	-3.15	0.44	-0.01	115.4	-0.53	99.3	100.0	480/7

Choo	se the best answer for the following questions: (30 points possible – 3 points each)
1.	Which Pen of feeder pigs has the best chance to perform at a higher rate than the expected average(s) used to calculate end weight in each scenario and why? # Prover Stro w Ind & ERO'S For PERFORMANCE OR
2.	#2 VILGIN STUD who if he Performed as expected will have highted Which sire is a virgin stud and what does that mean? What are his performance standards based on?
	#2 Socrety on this BASE CREMENTED EPD'S
3.	Projected rate of gain and performance are measured, directly or in-directly, in which EPD's provided for the 3 sires?
	DAYS, LBS, FE, TSI & MCI
4.	Projected reproduction traits are measured, directly or in-directly, in which EPD's provided for the 3 sires?
	SPI & MCI
5.	Projected carcass quality and/or yield are measured, directly or in-directly, in which EPD's provided for the 3 sires?
	BF, DAYS, LBS, TSI, MLI
6.	Define TSI and include the measurements that go into calculating this sire index-
	WEIGHTS the EPO'S FOR BF, DAYS, LRS + FEED/GAIN
7	•
7.	Define Days and include the measurements that go into calculating this sire index-
8.	CACCULATED FROM AN ANNALS WEIGHT & AGE Define MLI and include the measurements that go into calculating this sire index- MATERNAL LINE INDEX —
9.	Define SPI and include the measurements that go into calculating this sire index- Son Production, INDER - WIS EPOS For # Born AUX,
	Number WENCO & 21 day Lotter WEIGHT.
10.	Define what STAGES stand for?
	SWINE TESTING AND GENETIC EVALUATION
	System

Progeny from boar #1: A group of 50 barrows weighing an average of 40lbs has arrived to your finishing barn at a cost of \$25/hd. The producer that you purchased them from told you to expect the following performance from this group of feeder hogs which will gain 2.1lbs/day on average to reach your targeted live weight of 260lbs. Feed costs will run \$270/ton and you expect these hogs will have a feed:gain of 2.3. You expect that carcass performance with these hogs will result in 0.85 in. in BF, and 8.9 Sq. in. of LEA and with a 73% dress, according to the producers information.

Pen information (All calculations must be to the nearest 100th): (4pts each)

1. Wha 260	at are th	e number =	of days to 2	220 / 220	weight?	104.76	DAGS	
Final Win	at's the ϵ	expected (عروبات Cotal lbs of fo	ىمبرى eed that w	<i>A06</i> rill be fed to	the pen in o	rder to achieve $0 = 25,300$	4s of FEED/
CAIN	-	6					\$3415.50	
#5 of FEE	ep \$	ちルナ	ed cost/lb of		o)?			
	7	DTAL	FEBD C		_	415.50	- 7 <i>o</i> .	3105/
			7	TOTAL #5	of GAM	11,000	fuel Cos	+/16% GAM

Progeny from boar #2: A second group of 50 barrows weighing an average of 45lbs has arrived to your finishing barn at a cost of \$32/hd. The producer that you purchased them from told you to expect the following performance from this group of feeder hogs which will gain 2.0lbs/day on average to reach your targeted live weight of 260lbs. Feed costs will run \$270/ton and you expect these hogs will have a feed:gain of 2.5. You expect that carcass performance with these hogs will result in 0.95 in. in BF, and 9.2 Sq. in. of LEA and with a 71% dress according to the producer's information.

Pen information (All calculations must be to the nearest 100th): (4ph Gach)

1. What are the number of days to 260lbs live weight?
260 - 45 = 215 215/2.0 = 107.50
FINAL WT INT WY GAN GANN ADG DAYS 2. What's the expected total lbs of feed that will be fed to the pen in order to achieve
the expected weight gain average of 265?
215 x 2.5 = 537.58 , x 50 = 26,875 # 0/ ted/ 12
the expected weight gain average of 265? $2/5 \times 2.5 = 537.58 \times 50 = 26,875 \# 0 \text{ feel}$ (AN) What is the expected total cost of feed?
26.875 / 2000 = 13.44 T X 270/TON = \$3,628.13
What is the expected total cost of feed? $26.875 / 2000 = 13.44 T \times 270/100 = 3.628.13$ #of feed/Pen #1ing Tow Calculate the total feed cost/lb of gain (\$/lb)??
Total Flee $3/628.13$ = 0.3375 = 0.3375 = 0.3375
TOTAL FRED 3,628.13 = 0.3373 = 0.3373 = 10,750 FRED COST / 15 of GAN
Cost GAN
TOTAL 160 36 ANN/PEN

Progeny from boar #3: A third group of 50 barrows weighing an average of 35lbs has arrived to your finishing barn at a cost of \$23/hd. The producer that you purchased them from told you to expect the following performance from this group of feeder hogs which will gain 1.8lbs/day on average to reach your targeted live weight of 260lbs. Feed costs will run \$270/ton and you expect these hogs will have a feed:gain of 2.5. You expect that carcass performance with these hogs will result in 0.65 in. in BF, and 9.2 Sq. in. of LEA and with a 74% dress according to the producer's information.

Pen information (All calculations must be to the nearest 100th): (4pk each)

1. What are the number of days to 260lbs live weight?
260-35 = 225 225/1.8 = 125
FINAL WT INTUT WTEAM GAM ADG DAYS 2. What's the expected total lbs of feed that will be fed to the pen in order to achieve
the expected weight gain average of 260? $225 \times 2.5 = 562.50 \times 50 = 28,125 + 8 \text{ of feed } PEN$
das y d.3 = 362.10 x 30 = do, 123 #8 01 78 40 / 200
(-)(F(A)) $F(B)$ $(F(A) + + + + + + + + + + + + + + + + + + +$
3. What is the expected total cost of feed? $28,125/2000 = 14.06 \# \times 270/T = 43,796.875$
Torac Cost of feed 4. Calculate the total feed cost/lb of gain (\$/lb)?? Torac Cost of feed
TOTAL COST OF FEED 3,796.875
TOTAL COST OF FEED 3,796.875 = 0.3375
/ //.800
Tora #10 + GAIN/DEN feel Cost/MbB
Tora # sof GAIN PEN feel Cost / Mog
faid
}

- 1. Please orally defend your reasons for the 3 questions that precede this paragraph. You will pick a boar and their off spring based on their projected performance in each scenario that best fits the question asked. You will have to give specific reasons as to why you chose the boar and their offspring that you did for each question. You may compare and contrast boars within a question to support your reasoning. Use the following questions as a basis to structure your 2 min defense. (34 points)
 - A. Which boars projected pen data shows his offspring will be higher performing and result in the cheapest cost of feed/lb of gain?
 - B. Which boars EPD's show that his offspring should exceed the other pens performance and is higher than his projected performance based on the producers information?

C. Which boar has the least promise in both actual projected performance and EPD performance? Where there any surprises once you made your calculations from the projected values?

3 but Calculated feed Cost/16 of Gain too the Save as Boar 2, his prefrance EPD Infrahr freeShort.