











Ag Decision Maker



# What is the <u>current</u> market incentivizing?

"The market signal is pretty clear; more calf production is needed and will be rewarded." COW/CALF NEWSLETTER, November 3, 2014, Derrell Peel, Oklahoma State University

IOWA STATE UNIVERSITY

















Heifers Held as Replacements as % of Beef Cows Regionally, January 1		
<b>1995 (%):</b> 1. West (20.1%) 2. Great Plains (19.4%) 3. Southeast (18.6%) 4. Combelt (18.6%) 5. S. Plains (18.2%) U.S. = 18.3%	2005 (%): 1. Cornbelt (21.7%) 2. Great Plains (19.2%) 3. West (18.8%) 4. Southeast (17.0%) 5. S. Plains (16.4%) U.S. = 17.3%	2015 (%): 1. Great Plains (22.4%) 2. West (21.2%) 3. Cornbelt (20.6%) 4. S. Plains (19.2%) 5. Southeast (16.5%) U.S. = 19.5%
→Great Plains →West →Cornbelt →Southern Plains →Southeast		
IOWA STATE UNIVERSITY Extension and Outreach		Data Source: USDANASS Ag Decision Maker Department of Economics

































## Buy Instead of Raise Replacement Females

#### **DRIVERS OF PROS/BENEFITS**

- Added Returns
- Sell a heifer you otherwise would have retained
- Possible revenue increase from improved genetics
- Reduced Costs
- Save variable, fixed, etc. costs of NOT raising heifer

#### DRIVERS OF CONS

- Reduced Returns Not applicable
- Added Costs
- Purchase a heifer you otherwise would have raised

Ag Decision Maker

IOWA STATE UNIVERSITY

## Buy Instead of Raise Replacement Females DEFAULT SITUATION • Total Added Returns: \$2,350.37/head • Total Added Costs: \$2,700.00/head • Net change in returns of -\$349.63/head • Any multi-year gain (i.e., genetics) would increase this value

 Under this scenario, what genetic or intrinsic merit do you need to make buying instead of raising heifers even?

20 lbs of weaning weight / calf / year = \$349.63 / 7 years / \$2.60 per pound calf price

### IOWA STATE UNIVERSITY

Ag Decision Maker













# Should I Retain/Buy Replacement Females?

- Yes <u>if</u>:
  - Market encourages that
  - Compare NPV of replacements females available to buy/retain

Objective of a cattleman is to maximize the present value of the stream of residual earnings from cows in the herd; prices and interest rates are important (Meton, 1980; Meton and Colette, 1993)

IOWA STATE UNIVERSITY

Ag Decision Maker Department of Economics



IOWA STATE UNIVERSITY

Ag Decision Maker



















