Understanding and Using Basis Data/Information Basis = (Local Cash minus Futures)

Wyoming, February 2015

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Sample Basis Calculations

Basis = (Cash Minus Futures)

	•		,
Date	Local Cash*	<u>Futures</u>	Basis
6/2/12	\$ 6.45	\$6.85	-\$.40
6/3/12	\$ 6.45	\$6.89	-\$.44
6/4/12	\$ 6.50	\$6.94	-\$.44
6/5/12	\$ 6.52	\$6.96	-\$.44
6/6/12	\$ 6.50	\$6.92	-\$.42
6/9/12	\$ 6.48	\$6.90	-\$.42
6/10/12	\$ 6.45	\$6.88	-\$.43
6/11/12	\$ 6.40	\$6.85	<u>-\$.45</u>
		Average Basis	-\$.43

* For specific type and quality of commodity



Estimating Local Cash Price

Futures Price for specific commodity

- Transportation/Infrastructure
 - All costs Farm to Market
- Local storage, handling, profit
- Commodity Discounts
 - Class = HRW Ord. versus 12%
 - Quality = dirt, chaff, other, etc.
- + Commodity Premiums
 - Protein, Plump, (Class & Quality)
- Expected Local Cash Price for specific commodity



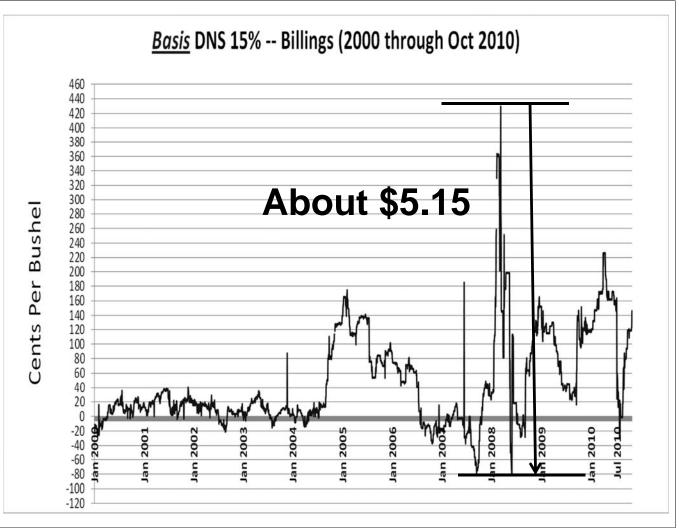
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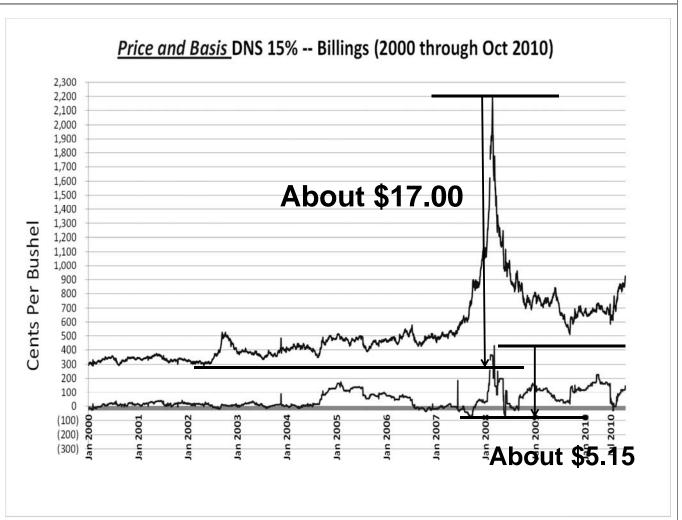
= Basis

Explaining Basis

- Infrastructure Factors:
 - Storage capacity and through put
 - Transportation system(s) capacity
 - Relatively stable/known and can be managed
- Production and Marketing Factors
 - Weather
 - Quality (discounts and premiums)
 - Deviations from Contract Specifications
 - 500 Lb. calf Vs 700 Lb. contract spec
 - Global demand and supply
 - Institutional affects







Basis Versus Price Predictability

- Use Basis to <u>transfer price risk</u> to others
 - Use Futures or Options to "Lock In" Price
 - Your risk becomes the Basis Risk (variability)



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Relatively Stable Basis Makes Futures Work

- Basis = (Cash Futures)
- What cash price minus what futures price
- Location, Time, Quality determine Basis amount
 - Local cash price for quality/grade of product
 - Terminal market cash price for quality/grade
- Must know your local basis
 - Nearest buyers elevators, auctions, etc.
- Adjust Basis to your operation ?????



Different Types of Basis

Current Cash Price by commodity, location, time
Minus
Near by Futures Price = "Continuous Basis"

OR

Current Cash Price by commodity, location, time
Minus
Specific Contract Month= "Point in Time"

Some basis data available from University of Wyoming

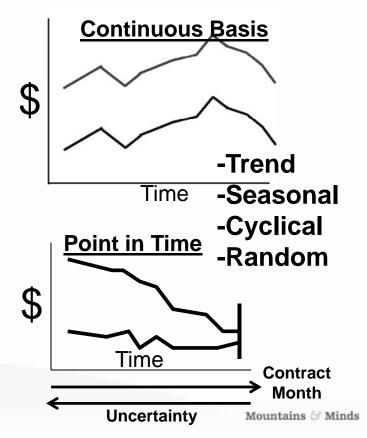


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Different Types of Basis

Current local cash price minus near by futures

Current local cash price minus specific futures contract month



Positive & Negative Basis

- If basis is positive the cash is greater than futures price
- If negative then cash is less than futures
- Basis will vary over time (random noise)
- As basis changes it is referred to as
 - Improving (strengthening) or
 - Weakening
- Why not getting narrower or wider
- Inverted Basis (opposite of normal)



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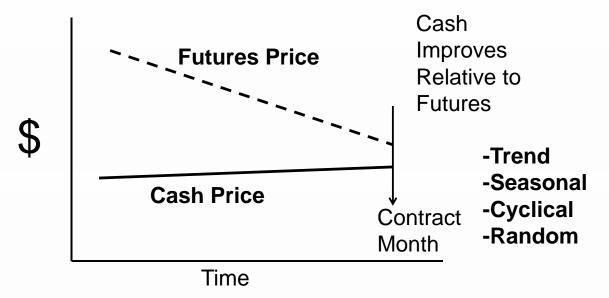
Strong or Strengthening Basis

- Basis is strong if the current basis is greater than the historical average basis
 - Basis is typically Positive
 - Larger than average positive number
 - Basis is typically Negative
 - Smaller than average negative number
 - Basis becomes inverted



Picture of Strong/Improving Basis

Basis = (Cash – Futures)

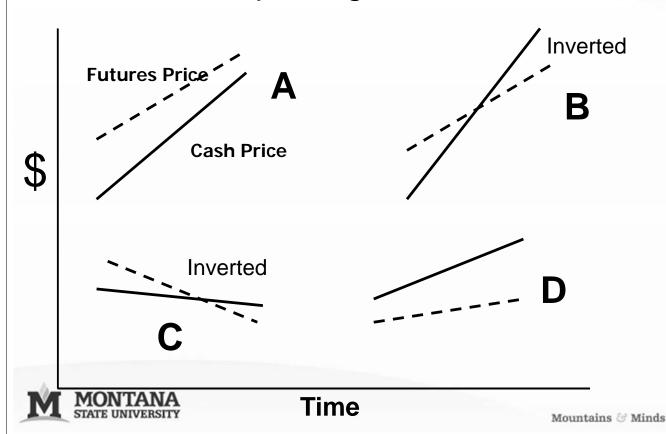


Basis is negative but is trending toward a smaller negative number



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Other Improving Basis Patterns



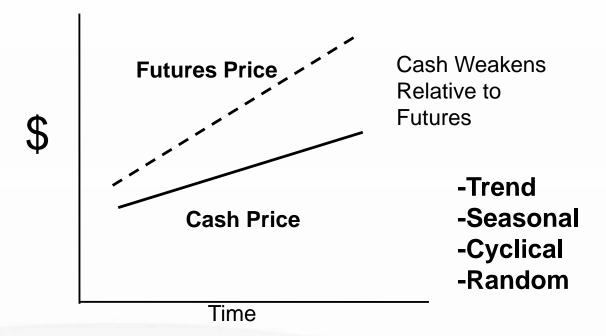
Weak or Weakening Basis

- Basis is weak if the current basis is less than the historical average basis.
 - Positive basis
 - Smaller than average positive number
 - Negative basis
 - Larger than average negative number

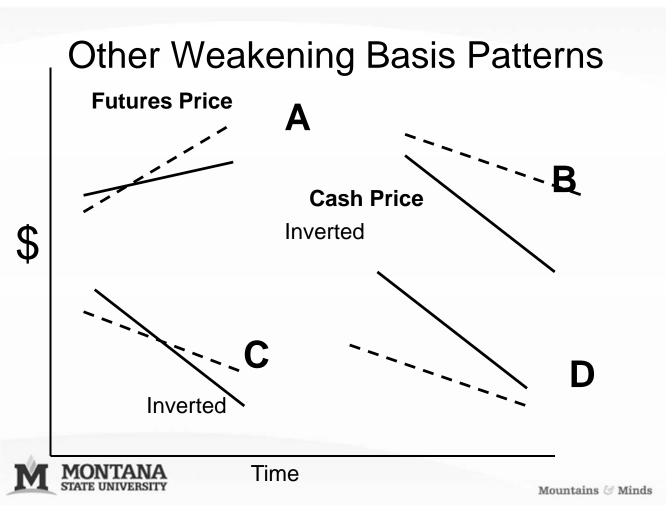


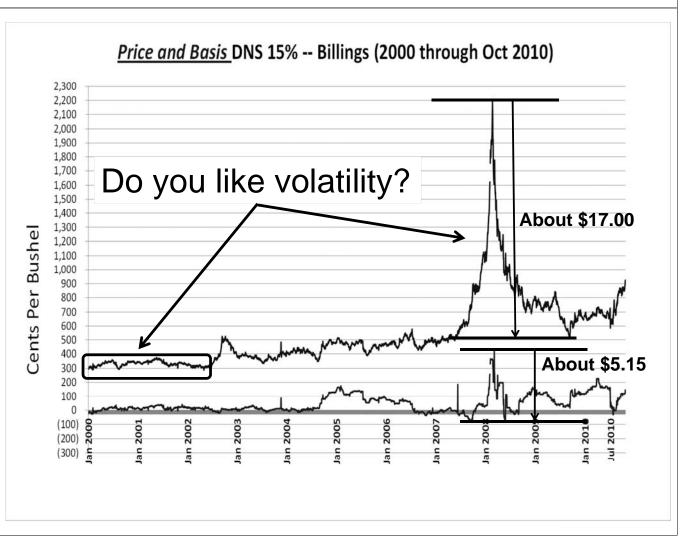
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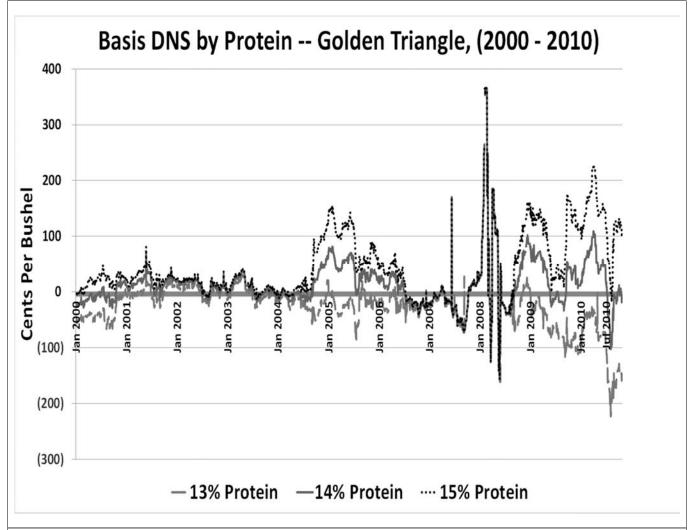
Picture of Weakening Basis

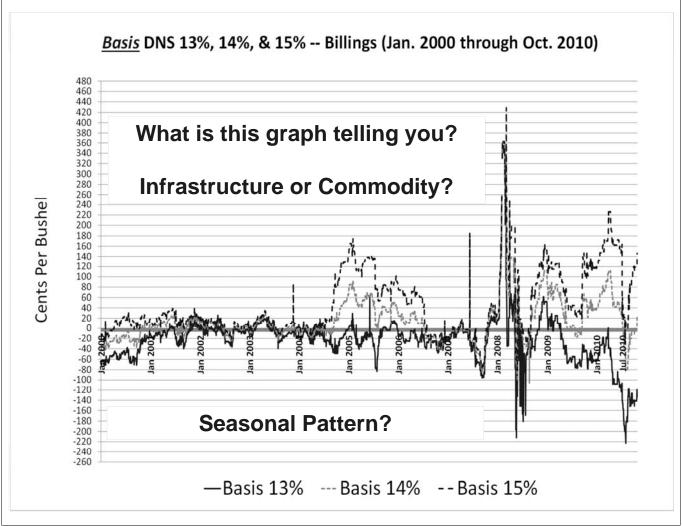




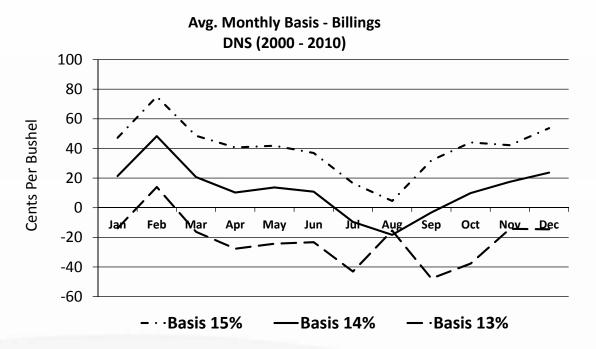






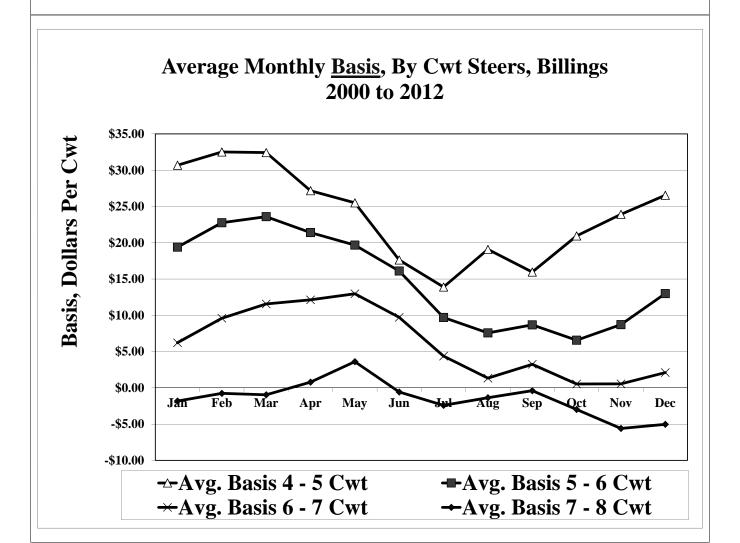


Dark Northern Spring, Billings Basis





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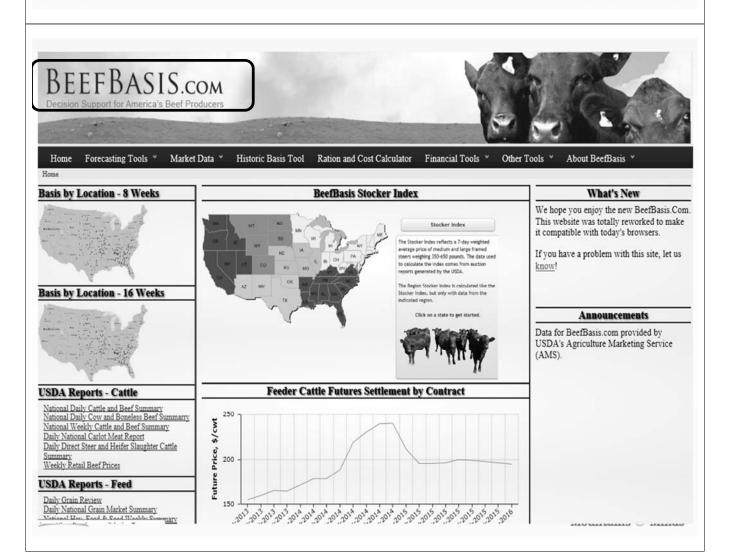


Data Available to Calculate Local Basis

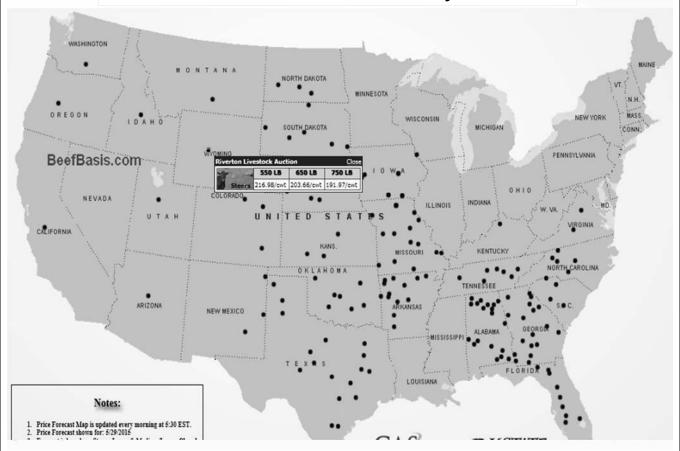
- Grains by type and protein level
 - Agricultural Marketing Service (AMS)
 - http://www.ams.usda.gov/AMSv1.0/
- Livestock Market Information Center (LMIC) http://www.lmic.info/
- Your local:
 - Extension Agent or Specialist
 - Elevator,
 - Auction yard,
 - Marketing club



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16 Weeks Out on February 6, 2015





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