

Purpose of a Hedge

- Provide a change in value of the hedging instrument in the <u>opposite</u> direction of the hedged item.
- For <u>tax</u> purposes, the <u>gains or losses</u> on from hedging activities are recognized <u>when hedges are</u> <u>lifted</u>
- For <u>accounting</u> purposes, hedging gains/losses are recognized in the period the gains or losses occur
 - Hedging is consider normal business operation so should be <u>matched to gross revenue and expense</u>

What is Hedging?

- Hedging is a risk management strategy that attempts to offset price movements of owned assets, planned production of a commodity or good, or planned purchases of commodity or good against a derivative instrument (which generally derives its value from an underlying physical commodity).
- It is not an attempt to make money in the futures and options markets, but rather an attempt to offset price changes in the cash market, thereby protecting the producers net income.





- and losses from the Broker's statement form 1099B.
 Care must be taken in reviewing form 1099B from brokerage companies if options are used since many brokers will show a
- purchase of an option as a realized loss and any outstanding option value at year-end as unrealized gain.
- This may result in reported gains or losses that are materially different from actual gains or losses.



Fair Value Hedges

- ...used to protect the exposure to market value changes of an asset or a liability. For agricultural producers this generally refers to stored crop inventory.
- If crops are valued at market then the underlying hedge is marked-to-market and the gain or loss is included in net income for the period. In other words, gains and losses are realized with respect to net income.









- A simple way to think of cash flow hedges is to consider the gains and losses flowing to valuation equity. Technically the gains and losses are accumulated in the equity section of the balance sheet in an account titled accumulated other comprehensive income. Accordingly, all these unrealized gains and losses are considered unrecognized with respect to net income (i.e., they are not included in net income).
- As these unrealized gains and losses are offset, previous accumulated gains or losses are removed from other comprehensive income and are reclassified in net income, which has the impact of moving the gain or loss in the equity section of the balance sheet from accumulated other comprehensive income to retaining earnings.









- Gain and losses from hedging transactions may be significant items for an agricultural producer. Proper treatment and presentation in the financial statements are important to be sure earnings are measured accurately.
- The recommended approach is to:
 - Treat hedging transactions as fair value hedges when inventories are valued at market (stored grain or livestock available for sale). This treatment has the impact of showing in net income the gain and losses from hedging transactions.
 - Treat hedging transactions as cash flow hedges when inventories are value at cost (growing crops or livestock) or production is planned (has not begun). This treatment has the impact of showing in other comprehensive income the gain and losses from hedging transactions, and keeping these amounts out of net income.





 Unrealized gains or losses from hedging – are based on the mark-to-market rules and value hedging transactions as of the date of the financial statement.

- Appear in a brokerage statement's open equity position
- May be **recognized** as Other Comprehensive Income but not Net Income in respect to Cash Flow Hedges





-	Recog	nized/Realiz	ed Recap	
		Recognized	Realized	۲
	Tax Treatment			-
	Accrual Treatment			-
2				
P				
-				
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- Value on March 31, 2013 is \$5.80, report \$750 loss in OCI.
- On June 20, 2013, close futures at \$5.25. Realized gain of \$2,000 is reported in other comprehensive income.









- Hedging Asset
 - One account for **each** segregated brokerage account
- Inventory Asset
 - One account for crops; one for livestock
- Hedging Gain/Loss Income
 - One account for each product or commodity
- Unrealized Gain/Loss Income
 - One account for all products or commodities
- Inventory Market Value Gain/Loss Income
 - One account for each product or commodity



	Account Rec	ар		
	Account Name	Туре	Comments	
	Hedging Equity	Asset	One account for each trading fund	1
	Inventory Asset	Asset	One account for crops/livestockStored Crop InventoriesFeeder Livestock Inventories	
-	Hedging G/L	Income	One account for each commodity	
1			Lean Hog G&L	
4			Corn G&L	
ť			Soybean Meal G&L	
	Unrealized Hedging G/L	Income	Only one account required	
1	Inventory Market Value G/L	Income	Only one account required	
1	Commissions	Expense	Only one account required	

	Cash Flow He	dge A	ccount Recap	
	Account Name	Туре	Comments	
	Other Comprehensive Income	Income	One account for each commodity	1
	(OCI)		Lean Hog OCI	
			Corn OCI	
			Soybean Meal OCI	
2	Accumulated Other Comprehensive Income	Equity	One account for each commodity	
	(AOCI)		Lean Hog AOCI	
5			Corn AOCI	
-			Soybean Meal AOCI	





	 Delivery Perio Cash Flow Hedges Examples (multiple 	S	
	Delivery Period	Examples	
-	By Quarter (Cattle)	"C141" for first quarter of 2014	
1	By Quarter (Hogs)	"H141" for first quarter of 2014	
4	By Month (Cattle)	"C1401" for January 2014	
ľ	By Month (Hogs)	"H1401" for January 2014	
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Options

- On open or close of position?
- For long puts and calls use positive quantity
- For short puts and calls use <u>negative</u> quantity





DTN with	A Market Position
	Contract type I Hedge Product 5 Hogs Unit Contract Each Holds Again State Contract A Quantity per Contract Cont
	Livestick center [H113] Hog Hege 2013 • Project 0 No Project • O elkewy date [6//17:02] • • Cesion date [6//17:02] • • Quarter Ured [114] Quarter 2013 • Quarter Ured 0.000 Pounds •

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Cost Analysis	W1U		iea	.gm	g
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	ACTUAL	% of	ACTUAL	ACTUAL	
	VALUE	TOTAL	PER CWT	PER HEAD	
NET SALES					
Market Hog Sales	2,869,173.56	94.60	65.24	180.37	
Carcass Premium	258,927.60	8.54	5.78	15.94	
Sort Loss	-85,183.29	-2.81	-1.90	-5.24	
Hedging Gain/Loss	29,912.50	0.99	0.67	1.84	
Low Value Hogs	32,376.33	1.07	67.21	186.07	
No Value Hogs	16,058.39	0.53	43.30	101.00	
Dead On Arrival	375.65	0.01	67.32	187.83	
Freight & Trucking	-42,436.43	-1.40	-0.95	-2.61	
Marketing Expense	-46,103.47	-1.52	-1.03	-2.84	
Total NET SALES	3,033,100.84	100.00	67.65	186.74	
DIRECT PRODUCTION EX					
Purchased Pigs	998,688.17	45.74	378.14	43.67	
Inv. Adjustment	-255,651.07	-11.71	-5.70	-15.74	
Feed Feed GMD	1,528,232.51	69.99	34.09	94.09	
	82,874.06	3.80	1.85	5.10	
Feed Adjustment	-224,927.65	-10.30	-5.02 0.11	-13.85	
Feed Hedge	4,997.87	0.23		0.31	
Cont. Grower Direct	1,507.64	0.07	0.03	0.09	
Direct Vet. Services	271.69	0.01	0.01	0.02 2.13	
Drugs/Medication	34,541.40				
Drug Adjustment Total DIRECT PRODUCTION EX	12,999.82 2.183,534,44	0.60	0.29 48.70	0.80 134.44	







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	Cash Flow Hedge OCI Entries	P
	 – Reverse to <u>Accumulated</u> OCI • <u>Management</u> level 	5
	Reverse <u>accumulated</u> amount original G/L Income account to the <u>Unrealized</u> G/L Income account	
	 Use the <u>Delivery Period Center</u> from original entry Offset to AOCI Equity account 	
	GSF13) Add Journal Entry -	
	Reventing Entry Image: Constraint of the state of the	
ł	Ant. to Balance (0.03)	
-	Line Acct. Cen. Div. Amount [Description] Quantity Image: Center of the c	
	28111 ADCH-Lean Hogs H01307 Hogs July 13 Hedges D GSC Livestock	
	Save Cancel Pint Inset Line Delete Line Togde Science	

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	Cash Flow Hedge OCI Entries	1
	 Allocate to Delivery Period <u>Management</u> level Reverse Accumulated OCI Equity Account Use the <u>Delivery Period Center</u> from original entry Post to OCI Income account 	
	(GSF13) Change Journal Entry	
	Entry Number 119721 and/or Vendor Date 07/31 /2013 112 ADM Investor Services Services	
P	Amt to Balance 0.00	
	Line Aect Cen. Dir. Amount Description Quantity. Project Field Method Acres Hours Quantity. 1 28111 H01307 0 313,820.00 APPLY 0.000	

_	Tr	ansactio	n R	есар					
Date	Acct.	Acct Desc.	Cen.	Cen. Desc.	Debit Amt.	Amount	Credit Amt.	Description	Entry Type
06/27/2013	36011	Gain/Loss Hedging-L	H01307	Hogs July 13 Hedges		-313,820.00	0.00		Journal - Financial
		Unrealized G/L Hogs		Hogs July 13 Hedges		313,820.00	313,820.00		Journal - Mngt.
		AOCI-Lean Hogs		Hogs July 13 Hedges		-313,820.00		REVERSE	Journal - Mngt.
		AOCI-Lean Hogs		Hogs July 13 Hedges		313,820.00			Journal - Mngt.
07/31/2013	36111	OCI-Lean Hogs	H01307	Hogs July 13 Hedges	313,820.00	-313,820.00	0.00	APPLY	Journal - Mngt.
					0.44, 400, 00		007.040.00		
					941,460.00	-313.820.00	627,640.00		
						-313,820.00			