

Exhibit Name: Indemnity Calculation  
 Exhibit Number: P24\_1, Plan 82  
 Record Name: LGM Indemnity  
 Record Code: P24\_1

Reinsurance Year: 2025  
 Version: Draft  
 Release Date: 9/12/2024

Insurance Plan Code

82 Livestock Gross Margin

Commodity Code

0803 Cattle  
 0847 Dairy Cattle

0815 Swine

Calculations

Field Name

Record Number

Field Number

Field Format

Field Rounding

Rules

**Section 1 is Applicable For Swine Only**

**Section 1: Total Actual Gross Margin Calculation**

For X where X is months 2 through 11:		Month X Total Actual Gross Margin Amount	Internal		9999999999		
Month X Total Actual Gross Margin Amount =	(Month X Target Market Amount * Month X Actual Gross Margin Amount)	Month X Target Market Amount	P16	21-25	999999	Round to whole number.	
		Month X Actual Gross Margin Amount	ADM				From ADM LGM Gross Margin, "A00600."
Total Actual Gross Margin Amount =	$\sum_{X=2}^6$ (Month X Total Actual Gross Margin Amount)	Total Actual Gross Margin Amount	P24	23	9999999999		Sum of actual gross margin by month for the insurance period. Only the negative symbol (-) will appear if applicable.

**Section 2 is Applicable for Cattle Only**

**Section 2: Total Actual Gross Margin Calculation**

Month X Total Actual Gross Margin Amount =	ROUND(ROUND((Month X Target Market Amount * Live Cattle Target Weight Quantity), 4) * Month X Actual Live Cattle Price), 4) - ROUND(ROUND((Month X Target Market Amount * Feeder Cattle Target Weight Quantity), 4) * Month X Actual Feeder Cattle Price), 4) - ROUND(ROUND((Month X Target Market Amount * Corn Target Weight Quantity), 4) * Month X Actual Corn Price), 4)	Month X Total <del>Expected</del> Actual Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals.	Value can be negative.
		Month X Target Market Amount	P16	21-30	999999		
		Live Cattle Target Weight Quantity	P16	52	99.99		
		Feeder Cattle Target Weight Quantity	P16	53	9.99		
		Corn Target Weight Quantity	P16	54	99.99		
		Month X Actual Live Cattle Price	ADM		9999.9999		Equal to Month X Actual Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'LE'.
		Month X Actual Feeder Cattle Price	ADM		9999.9999		Equal to Month X Actual Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'GF'.
Month X Actual Corn Price	ADM		9999.9999		Equal to Month X Actual Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C'.		
Total Actual Gross Margin Amount =	$\sum_{X=2}^{11}$ (Month X Total Actual Gross Margin Amount)	Total Actual Gross Margin Amount	Internal		9999999999	Round to whole number.	Sum of Actual Gross Margin Amounts for months 2 through 11.

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**Insurance Plan Code** 82 Livestock Gross Margin

**Commodity Code** 0803 Cattle 0815 Swine  
 0847 Dairy Cattle

**Calculations**

**Field Name**

**Record Number**

**Field Number**

**Field Format**

**Field Rounding**

**Rules**

**Sections 3 and 4 are Applicable for Dairy Cattle Only**

**Section 3: Actual Feed Cost Calculation**

For X where X is months 2 through 11:

$$\text{Month X Actual Feed Cost Amount} = (\text{Month X Corn Equivalent Amount} * (\text{Round}(2000/56), 16) * \text{Month X Corn Price}) + (\text{Month X Soybean Meal Equivalent Amount} * \text{Month X Soymeal Price})$$

Month X Actual Feed Cost Amount	Internal		9999.99		Dollars and Cents.
Month X Corn Equivalent Amount	P16	31-40	9999.999999		
Month X Actual Gross Margin Amount for corn	ADM		999.99		From ADM LGM Gross Margin, "A00600", where Market Symbol Code is "C" for Corn.
Month X Soybean Meal Equivalent Amount	P16	41-50	9999.999999		
Month X Actual Gross Margin Amount-for Soybean Meal	ADM		999.99		From ADM LGM Gross Margin, "A00600.", where Market Symbol Code is "SM" for Soybean Meal.

**Section 4: Total Actual Gross Margin Calculation**

For X where X is months 2 through 11:

$$\text{Month X Total Actual Gross Margin Amount} = (\text{Month X Target Market Amount} * \text{Month X Milk Price}) - \text{Month X Actual Feed Cost}$$

Month X Total Actual Gross Margin Amount	Internal				From ADM LGM Gross Margin, "A00600."
Month X Target Market Amount	P16	21-30	999999		
Month X Actual Gross Margin Amount for Milk	ADM		999.99		From ADM LGM Gross Margin, "A00600.", where Market Symbol Code is "DA" for Milk.
Total Actual Gross Margin Amount	P24	23	9999999999		Sum of actual gross margin by month for the insurance period. Only the negative symbol ( - ) will appear if applicable.

**Sections 5 and 6 are Applicable for Swine, Cattle and Dairy Cattle**

**Section 5: Market Factor and Calculation**

$$\text{Total Target Market Amount} = \sum_{X=2}^{11} (\text{Month X Target Market Amount})$$

For X where X is months 2 through 11:

$$\text{Month X Market Factor} = \frac{\text{Round}((\text{Round}((\text{MIN}(\text{Month X Cumulative Target Market Amount}, \text{Month X Actual Market Amount} / 0.85)), 3) / \text{Month X Cumulative Target Market Amount}), 3)}{\text{Total Target Market Amount}}$$

Total Target Market Amount	Internal		9999999999		
Month X Target Market Amount	P16	21-30	999999		
Month X Market Factor	Internal		9.999	Round to 3 decimals.	
Month X Actual Market Amount	P24	12-21	9999999999		
Month X Cumulative Target Market Amount	P29	15-24			
Market Factor	Internal		9.999	Round to 3 decimals.	
Month X Market Factor	Internal				
Total Target Market Amount	Internal		999999		Sum of Target Marketings by month.

**Section 6: Indemnity Calculation**

$$\text{Indemnity Amount} = \text{MAX}((\text{Gross Margin Guarantee Amount} - \text{Total Actual Gross Margin Amount}) * \text{Market Factor}, 0)$$

Indemnity Amount	P24	24	999999999999	Round to whole number.	An indemnity is calculated and payable if Actual Total Gross Margin is less than Gross Margin Guarantee.
Gross Margin Guarantee Amount	P16	71	9999999999.99		