Reinsurance Year: 2025 Version: Approved Release Date: 6/27/2024

<u>Insurance Plan Code</u> 82 Livestock Gross Margin

insurance Flan Code			82 Livestock Gross Wargin					
		0803 Cattle	0815 Swine					
Commodity Code		0847 Dairy Cattle						
			Field	Record	Field	Field	Field	
		<u>Calculations</u>	<u>Name</u>	Number	Number	Format	Rounding	Rules
			Sections 1-3 are For Swin	e Only				
Section 1: Gross Margin Guarantee Am	ount Ca	lculation		•				
For X where X is months 2 through 6:								
		Month X Target Market Amount * Month X Expected Gross Margin Amount	Month X Total Expected Gross Margin Amount	Internal		9999999.9999	Round to 4 decimals.	
Month X Total Expected Gross Margin Amount	=		Month X Target Market Amount	P16	22-26	999999		
			Month X Expected Gross Margin Amount	ADM		9999.9999		From ADM LGM Gross Margin, "A00600."
Total Expected Gross Margin Amount	=	6 ∑ (Month X Total Expected Gross Margin Amount) X=2	Total Expected Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Sum of Total Expected Gross Margin Amounts for months 2 through 6.
	=	Total Expected Gross Margin Amount - (Deductible Amount * Total Target Market Amount)	Gross Margin Guarantee Amount	P16	69	9999999999.99	Round to 2 decimals.	Value can be negative.
Gross Margin Guarantee Amount			Deductible Amount	P16	52	9999.99		
			Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.
Section 2: Liability Calculation								
Linkilitu Amanut	=	Liability Price * 0.74 * 2.6 * Total Target Market Amount	Liability Amount	P16	70	999999999	Round to whole number.	Cupped by the standard rule of \$1 if applicable.
Liability Amount			Liability Price	ADM				Liability Price from ADM A00600.
Section 3: Simulated Losses Calculation								
For X where X is months 2 through 6:							_	
	=		Month X Total Gross Margin Draw Amount(i)	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Value can be negative.
Month X Total Gross Margin Draw Amount(i)		Month X Margin Draw Amount(i) * Month X Target Market Amount	Month X Target Market Amount	P16	22-26	999999		
			Month X Margin Draw Amount(i)	ADM		99999.99		Month X Gross Margin Draw from A00610 ADN LGM Draw.
Total Simulated Gross Margin Amount(i)	=	6 ∑ (Month X Total Gross Margin Draw Amount(i)) X=2	Total Simulated Gross Margin Amount(i)	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Sum of Simulated Gross Margins 2 thru 6. Negative simulated gross margins will be included.
Simulated Loss Amount	=	500 ∑ (MAX(Gross Margin Guarantee Amount - Total Simulated Gross Margin Amount(i), 0)) i=1	Simulated Loss Amount	Internal		999999999	Round to whole number.	

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<u>Insurance Plan Code</u> 82 Livestock Gross Margin

0803 Cattle

0847 Dairy Cattle

0815 Swine

Sections 4 - 6 are For Cattle Only

For X where X is months 2 through 11:	

Commodity Code

Month X Total Expected Gross Margin Amount ROUND((ROUND((Month X Target Market Amount * Live Cattle Target Weight Quantity), 4) * Month X Live Cattle Price), 4) ROUND((ROUND((Month X Target Market Amount * Feeder Cattle Target Weight Quantity), 4) * Month X Feeder Cattle Price), 4) ROUND((ROUND((Month X Target Market Amount * Corn Target Weight Quantity), 4) * Month X Corn Price), 4)

Month X Total Expected Gross Margin Amount	Internal		999999999.99	Round to 2 decimals.	Value can be negative.
Month X Target Market Amount	P16	22-31	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 Live Cattle Price	ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'LE'.
Month X Feeder Cattle Price	ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'GF'.
Month X Corn Price	ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C'.

Reinsurance Year: 2025 Version: Approved Release Date: 6/27/2024

Insurance Plan Code			82 Livestock Gross Margin					
Commodity Code		0803 Cattle 0847 Dairy Cattle	0815 Swine					
Total Expected Gross Margin Amount	=	11 ∑ (Month X Total Expected Gross Margin Amount) X=2	Total Expected Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Sum of Expected Gross Margin Amounts for months 2 through 11.
		11	Total Target Market Amount	Internal		999999999		
Total Target Market Amount	=	∑ (Month X Target Market Amount) X=2	Month X Target Market Amount	P16	22-31	999999		
Gross Margin Guarantee Amount	_	Total Expected Gross Margin Amount - (Deductible Amount * Total Target Market Amount)	Gross Margin Guarantee Amount	P16	53	9999999999.99	Round to 2 decimals.	Value can be negative.
Gross Wargin Guarantee Amount	_		Deductible Amount	P16	52	9999.99		
			Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.
Section 5: Liability Calculation			In the second				<u></u>	
		Liability Price * Total Target Market Amount * Live Cattle Target Weight Quantity	Liability Amount	P16	70	999999999	Round to whole number.	
Liability Amount	=		Live Cattle Target Weight Quantity	P16	52	99.99		
			Liability Price	ADM		999.99		From ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'LE'.
Section 6: Simulated Losses Calculation								
For X where X is months 2 through 11:							1	_
	=	ROUND((ROUND((Month X Target Market Amount * Live Cattle Target Weight Quantity), 4) * Live Cattle Month X Margin Draw Amount(i)), 4) ROUND((ROUND((Month X Target Market Amount * Feeder Cattle Target Weight Quantity), 4) * Feeder Cattle Month X Margin Draw Amount(i)), 4) - ROUND((ROUND((Month X Target Market Amount * Corn Target Weight Quantity), 4) * Corn Month X), 4)	Month X Gross Margin Draw Amount(i)	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Value can be negative.
			Month X Target Market Amount	P16	22-31	999999		
			Live Cattle Target Weight Quantity	P16	52	99.99		
Month X Gross Margin Draw Amount(i)			Feeder Cattle Target Weight Quantity	P16	53	9.99		
			Corn Target Weight Quantity	P16	54	99.99		
			Corn Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
			Feeder Cattle Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
			Live Cattle Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
Total Simulated Gross Margin Amount(i)	=	11 Σ (Month X Gross Margin Draw Amount(i)) X=2	Total Simulated Gross Margin Amount(i)	Internal	_	9999999999.99	Round to 2 decimals.	Dollars and Cents. Sum of Simulated Gross Margins 2 thru 11. Negative simulated gross margins will be included.
Simulated Loss Amount	=	500 ∑ (MAX(Gross Margin Guarantee Amount - Total Simulated Gross Margin Amount(i), 0)) i=1	Simulated Loss Amount	Internal		9999999999	Round to whole number.	

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<u>Insurance Plan Code</u> 82 Livestock Gross Margin

0803 Cattle
0847 Dairy Cattle

0815 Swine

Commodity Code	0847 Dairy Cattle

Sections 7-9 are For Dairy Cattle Only Section 7: Gross Margin Guarantee Amount Calculation									
Month X Expected Feed Cost Amount :			Month X Expected Feed Cost Amount	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents.	
		ROUND((ROUND((Month X Corn Equivalent Amount * = ROUND((2000/56), 16)), 4) * Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalent Amount * Month X Soymeal Price), 4)	Month X Corn Equivalent Amount	P16	32-41	9999.999999			
	=			ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C'.	
			Month X Soybean Meal Equivalent Amount	P16	42-51	9999.999999			
			Month X Soymeal Price	ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'SM'.	
or X where X is months 2 through 11:									
			Month X Total Expected Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals.	Value can be negative.	
Month X Total Expected Gross	=	ROUND((Month X Target Market Amount * Month X Milk Price), 4) - Month X Expected Feed Cost Amount	Month X Target Market Amount	P16	22-31	999999			
Margin Amount	_		Month X Milk Price	ADM		9999.9999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'DA'.	
Fotal Expected Gross Margin Amount	=	11 ∑ (Month X Total Expected Gross Margin Amount) X=2	Total Expected Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals.	Dollars and Cents. Sum of Expected Gross Margin Amounts for months 2 through 11.	
		11	Total Target Market Amount	Internal		999999999			
Total Target Market Amount	=	∑ (Month X Target Market Amount) X=2	Month X Target Market Amount	P16	22-31	999999			
Gross Margin Guarantee Amount		= Total Expected Gross Margin Amount - (Deductible Amount * Total Target Market Amount)	Gross Margin Guarantee Amount	P16	53	9999999999.99	Round to 2 decimals.	Value can be negative.	
	-		Deductible Amount	P16	52	9999.99			
			Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.	
ection 8: Liability Calculation			Interest Account	D4.C		000000000	In the last		
Liability Amount	=	Liability Price * Total Target Market Amount	Liability Amount Liability Price	P16 ADM	70	9999999999	Round to whole number.	From ADM LGM Gross Margin, "A00600," who Market Symbol Code is 'DA'.	

Reinsurance Year: 2025 Version: Approved Release Date: 6/27/2024

Insurance Plan Code 82 Livestock Gross Margin 0803 Cattle 0815 Swine **Commodity Code** 0847 Dairy Cattle Section 9: Simulated Losses Calculation For X where X is months 2 through 11: Month X Feed Cost Draw 999999999.99 Internal Round to 2 decimals. Dollars and Cents. Amount(i) Month X Corn Equivalent Amount P16 32-41 9999.999999 ROUND((ROUND((Month X Corn Equivalent Amount * ROUND((2000/56), 16)), 4) * Corn Month X Margin Draw Amount(i)), 4) Corn Month X Margin Draw Month X Feed Cost Draw Amount(i) ADM 99999.99 + ROUND((Month X Soybean Meal Equivalent Amount * SoyM Month X Amount(i) From ADM LGM Draw, "A00610." Margin Draw Amount(i)), 4) Month X Soybean Meal Equivalent ADM 42-51 9999.999999 Amount SoyM Month X Margin Draw ADM 99999.99 Amount(i) From ADM LGM Draw, "A00610." For X where X is months 2 through 11: Month X Gross Margin Draw Internal 999999999.99 Round to 2 decimals. Dollars and Cents. Value can be negative. Amount(i) Month X Gross Margin Draw ROUND((Month X Target Market Amount * Dairy Month X Margin Month X Target Market Amount P16 22-31 999999 Draw Amount(i)), 2) - Month X Feed Cost Draw Amount(i) Amount(i) Dairy Month X Margin Draw ADM 99999.99 From ADM LGM Draw, "A00610." Amount(i) 11 Dollars and Cents. Sum of Simulated Gross **Total Simulated Gross Margin** Total Simulated Gross Margin Round to 2 decimals. ∑ (Month X Gross Margin Draw Amount(i)) Internal 999999999.99 Margins 2 thru 11. Negative simulated gross Amount(i) Amount(i) margins will be included. 500 ∑ (MAX(Gross Margin Guarantee Amount - Total Simulated Gross Simulated Loss Amount Simulated Loss Amount Internal 999999999 Round to whole number. Margin Amount(i), 0)) Sections 10 - 12 are For Swine, Cattle and Dairy Cattle Section 10: Total Premium, Subsidy, and Producer Premium Calculation **Total Premium Amount** 1.0870 * (1/500) * Simulated Loss Amount Total Premium Amount P16 71 999999999 Round to whole number. **Subsidy Amount** P16 72 999999999 Round to whole number. Subsidy is based on number of months and Subsidy Amount Total Premium Amount * Subsidy Percent ADM 9.999 deductible Edit with ADM Subsidy Percent, Subsidy Percent "A00070". **Producer Premium Amount** Total Premium Amount - Subsidy Amount **Producer Premium Amount** P16 75 999999999 Round to whole number. Section 11: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR) and Conservation Compliance (CC) Subsidy Calculations Base Subsidy Amount 999999999 Cupped by the standard rule of \$1 if applicable. Internal Round to whole number. **Base Subsidy Amount** Total Premium Amount * Subsidy Percent Subsidy Percent ADM 9.999 Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. 999999999 BFR/VFR Subsidy Amount Internal Round to whole number. If Applicable; else 0. BFR/VFR Subsidy Amount Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent) 0.10 (10%). CC Subsidy Reduction Percent P16 60 9.9999 If Applicable; else 0. CC Subsidy Reduction Amount. P16 69 999999999 Round to whole number. **CC Subsidy Reduction Amount** Base Subsidy Amount * CC Subsidy Reduction Percent CC Subsidy Reduction Amount If Applicable; else 0. Base Subsidy Amount + BFR/VFR Subsidy Amount - CC Subsidy Subsidy Amount cannot exceed Total Premium **Subsidy Amount** Subsidy Amount P16 72 999999999 Round to whole number. Amount. Subsidy Amount will be cupped at \$0. **Reduction Amount** Producer Premium Amount Total Premium Amount - Subsidy Amount Producer Premium Amount P16 9999999999 IRound to whole number Section 12: A&O Expense Subsidy A&O Expense Subsidy Amount P16 76 999999999.99 Round to whole number. Cupped by the standard rule of \$1 if applicable. A&O Expense Subsidy Amount Total Premium Amount * A&O Expense Subsidy Percent Edit with A & O Expense Subsidy Percent from A&O Expense Subsidy Percent ICE the A & O Expense Subsidy ICE, "D00097".