Exhibit Name: Premium Calculation
Exhibit Number: P16_1, Plan 82
Record Name: Acreage

Record Code: P16_1

Reinsurance Year: 2024 Version: Approved Release Date: 7/1/2023

Insurance Plan Code

82 Livestock Gross Margin

Commodity Code

0803 Cattle 0847 Dairy Cattle 0815 Swine

<u>Commodity Code</u>		0847 Dairy Cattle							
Sections 1 - 6 are For Cattle and Swine Only									
		Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules	
Section 1: Gross Margin Guarantee Amo	ount Cal	lculation							
For X where X is months 2 through 11:									
Month X Total Expected Gross Margin		Month X Target Market Amount * Month X Expected Gross Margin	Month X Total Expected Gross Margin Amount	Internal		9999999.9999	Round to 4 decimals		
Amount	=	Amount	Month X Target Market Amount	P16	22-31	999999			
			Month X Expected Gross Margin Amount	ADM		9999.9999		From ADM LGM Gross Margin, "A00600."	
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 Total Expected Gross Margin Amounts for months 2 through 11.	
		Total Expected Gross Margin Amount - (Deductible Amount * Total	Gross Margin Guarantee Amount	P16	69	9999999999.99	Round to 2 decimals	Value can be negative.	
Gross Margin Guarantee Amount	=	Target Market Amount)	Deductible Amount	P16	52	9999.99			
			Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.	
Section 2: Liability Calculation For Cattle 0803 Yearling Finishing (Type 8	000/-								
For Cattle 0805 Tearning Finishing (Type	000):		1	1		I			
Liability Amount	=	Three Day Cme Cwt Price * 12.5 * Total Target Market Amount	Liability Amount	P16	70	999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
			Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.	
For Cattle 0803 Yearling Finishing (Type	807):		1	ı	1	I .	Т		
Liability Amount	=	Three Day Cme Cwt Price * 11.5 * Total Target Market Amount	Liability Amount	P16	70	999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
Liability Amount	-		Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.	
For Swine 0815:									
Liability Amount	_	Three Day Cme Cwt 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	-		Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.	
Section 3: Simulated Losses Calculation									
For X where X is months 2 through 11:									
Month X Total Gross Margin Draw Amount(i)		Month X Margin Draw Amount(i) * Month X Target Market Amount	Month X Total 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			
			Month X Margin Draw Amount(i)	ADM		99999.99		Second-Month X Gross Margin Draw from A00610 ADM LGM Draw.	
Total Simulated Gross Margin Amount(i)	=	11 Σ (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 11. Negative simulated gross margins will be included.	
Simulated Loss Amount	=	500 Σ (MAX(Gross Margin Guarantee Amount - Total Simulated Gross Margin Amount(i), 0)) i=1	Simulated Loss Amount	Internal		999999999	Round to whole number		
Section 4: Total Premium, Subsidy, and	Produce		<u> </u>						
Total Premium Amount	=	- 1.0638 * (1/500) * Simulated Losses Amount	Total Premium Amount	P16	71	999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
			Subsidy Amount	P16	72	999999999	Round to whole number		
Subsidy Amount	=	Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999	None	Subsidy is based on number of months and deductible. Edit with ADM Subsidy Percent, "A00070".	
Producer Premium Amount		Total Premium Amount - Subsidy Amount	Producer Premium Amount	P16	75	999999999	Round to whole number		
A TOUGET T TEITHGITT AITHOUTE		Total Transaction Subsidy Filling		1 10	1 ,,,	333333333			

Exhibit Name: Premium Calculation Exhibit Number: P16_1, Plan 82

Record Name: Acreage Record Code: P16_1 Reinsurance Year: 2024 Version: Approved Release Date: 7/1/2023

Insurance Plan Code 82 Livestock Gross Margin
0803 Cattle 0815 Swine

0847 Dairy Cattle

Commodity Code

		Cost	ions 1 - Fore For Cattle and	L Suring On	lv.			
		Sect	ions 1 - 6 are For Cattle and Field	Record	•	Field	Field	
		<u>Calculations</u>	Name	Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	Rounding	Rules
ection 5: Beginning Farmer and Ranche	er (BFR),	, Veteran Farmer Rancher (VFR) and Conservation Compliance (CC) Subsid	dy Calculations					
			Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable
Base Subsidy Amount	=	Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070."
BFR/VFR Subsidy Amount =	=	Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount	Internal		999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).
			CC Subsidy Reduction Percent	P16	60	9.9999	None	If Applicable; else 0.
CC Subsidy Reduction Amount	=	Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Amount	P16	69	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.
Subsidy Amount	=	Base Subsidy Amount + BFR/VFR Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P16	72	999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0
Producer Premium Amount	=	Total Premium Amount - Subsidy Amount	Producer Premium Amount	P16	75	999999999	Round to whole number	, ii
Section 6: A&O Expense Subsidy								
			A&O Expense Subsidy Amount	P16	76	99999999999999	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	A&O Expense Subsidy Percent	ICE				Edit with A & O Expense Subsidy Percent from the A & O Expense Subsidy ICE, "D00097".
		The Follo	wing Sections are Applicabl	e for Dairy	Cattle			
		<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	Field Rounding	Rules
Section 7: Gross Margin Guarantee Amo	ount Ca		ivaine	<u>INCHIDEL</u>	ITUITIBET	romat	- Nounamb	<u>ruies</u>
For X where X is months 2 through 11:	Juin 04							
			Month X Expected Feed Cost Amount	Internal		999999999999999999999999999999999999999	Round to 2 decimals	Dollars and Cents.
			Month X Corn Equivalent Amount	P16	32-41	9999.999999		
Month X Expected Feed Cost Amount	=	ROUND((Month X Corn Equivalent Amount * (Round (2000/56),16) * Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalent Amount * Month X Soymeal Price), 4)	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'.
			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'
For X where X is months 2 through 11:								
Ionth X Total Expected Gross Margin Amount	=	ROUND((Month X Target Market Amount * Month X Milk Price), 4) - Month X Expected Feed Cost Amount	Month X Total Expected Gross Margin Amount	Internal		9999999999.99	Round to 2 decimals	Value can be negative.
			Month X Target Market Amount	P16	22-31	999999		
			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'.
Total Expected Gross Margin Amount	=	11 Σ (Month X Total Expected Gross Margin Amount) X=2	Total Expected Gross Margin Amount	Internal		999999999.99	Round to 2 decimals	Dollars and Cents. Sum of Expected Gross Margin Amounts for months 2 through 11.

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82 Livestock Gross Margin

Commodity Code

0803 Cattle 0847 Dairy Cattle 0815 Swine

<u>Commodity Code</u>		0847 Dairy Cattle						
		Secti	ons 1 - 6 are For Cattle and	Swine On	ly			
		Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
Total Target Market Amount =	=	11	Total Target Market Amount	Internal		999999999		
Total Talget Walket Alliount		∑ (Month X Target Market Amount)	Month X Target Market Amount	P16	22-31	999999		
		Total Expected Gross Margin Amount - (Deductible Amount * Total	Gross Margin Guarantee Amount	P16	53	9999999999.99	Round to 2 decimals	Value can be negative.
Gross Margin Guarantee Amount	=	Target Market Amount)	Deductible Amount	P16	52	9999.99		
are a restrict out to the		<u> </u>	Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.
ection 8: Liability Calculation			Ittabella Amarak	DAG	70	000000000		
Liability Amount	=	Liability Milk Price * Total Target Market Amount	Liability Amount Liability Milk Price	P16 ADM	70	9999999999		From ADM LGM Gross Margin, "A00600," who Market Symbol Code is 'DA'.
ection 9: Simulated Losses Calculation							•	
or X where X is months 2 through 11:								
		ROUND((Month X Corn Equivalent Amount * (Round (2000/56),16) * = Corn Month X Margin Draw Amount(i)), 4) + ROUND((Month X Soybean Meal Equivalent Amount * SoyM Month X Margin Draw Amount(i)), 4)	Month X Feed Cost Draw Amount(i)	Internal		999999999.99	Round to 2 decimals	Dollars and Cents.
			Month X Corn Equivalent Amount	P16	32-41	9999.999999		
Month X Feed Cost Draw Amount(i)	=		Corn Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
			Month X Soybean Meal Equivalent Amount	ADM	42-51	9999.999999		
			SoyM Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
or X where X is months 2 through 11:								
Month X Gross Margin Draw		ROUND((Month X Target Market Amount * Dairy Month X Margin Draw Amount(i)), 2) - Month X Feed Cost Draw Amount(i)	Month X Gross Margin Draw Amount(i)	Internal		9999999999.99	Round to 2 decimals	Dollars and Cents. Value can be negative.
Amount(i)	=		Month X Target Market Amount	P16	22-31	999999		
Amount(i)			Dairy 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 Σ (MAX(Gross Margin Guarantee Amount - Total Simulated Gross Margin Amount(i), 0)) i=1	Simulated Loss Amount	Internal		999999999	Round to whole number	
ection 10: Total Premium, Subsidy, and	Produc	cer Premium Calculation					•	
Total Premium Amount	=	1.0638 * (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 Amount	=	Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999		Subsidy is based on number of months and deductible Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount	=	Total Premium Amount - Subsidy Amount	Producer Premium Amount	P16	75	999999999	Round to whole number	7.000701

Exhibit Name: Premium Calculation **Exhibit Number:** P16_1, Plan 82

Record Name: Acreage
Record Code: P16_1

Reinsurance Year: 2024 Version: Approved Release Date: 7/1/2023

Insurance Plan Code 82 Livestock Gross Margin

0803 Cattle

0815 Swine

Commodity Code

0847 Dairy Cattle

Sections 1 - 6 are For Cattle and Swine Only									
			<u>Field</u>	Record	Field	<u>Field</u>	<u>Field</u>		
		<u>Calculations</u>	<u>Name</u>	<u>Number</u>	Number	<u>Format</u>	Rounding	Rules	
tion 11: Beginning Farmer and Ranch	er (BFR), Veteran Farmer Rancher (VFR) and Conservation Compliance (CC) Subs	idy Calculations						
Base Subsidy Amount =	=	Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable	
			Subsidy Percent	ADM		9.999			
BFR/VFR Subsidy Amount	=	Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount	Internal		999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).	
			CC Subsidy Reduction Percent	P16	60	9.9999		If Applicable; else 0.	
CC Subsidy Reduction Amount	=	Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Amount	P16	69	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.	
Subsidy Amount	=	Base Subsidy Amount + BFR/VFR Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P16	72	999999999	Round to whole number	Subsidy Amount cannot exceed Total Premiun Amount. Subsidy Amount will be cupped at \$	
Producer Premium Amount	=	Total Premium Amount - Subsidy Amount	Producer Premium Amount	P16	75	999999999	Round to whole number		