Record Name: Acreage Record Code: P16_1 Reinsurance Year: 2023 Version: Approved Release Date: 7/1/2022

Insurance Plan Code

82 Livestock Gross Margin

Commodity Code	0803 Cattle 0847 Dairy Cattle	0815 Swine					
	Ser	tions 1 - 6 are For Cattle and	l Swine On	lv			
	360	Field	Record	Field	<u>Field</u>	Field	
	Calculations	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	Rules
Section 1: Gross Margin Guarantee Amoun For X where X is months 2 through 11:	t Calculation						
· · · · · · · · · · · · · · · · · · ·		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 * Month X Expected Gross Margin 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 = Σ (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.
Gross Margin Guarantee Amount	Total Expected Gross Margin Amount - (Deductible Amount * Total	Gross Margin Guarantee Amount	P16	69	999999999.99	Round to 2 decimals	Value can be negative.
Gross Margin Guarantee Amount	Target Market Amount)	Deductible Amount	P16	52	9999.99		
Section 2: Liability Calculation		Total Target Market Amount	Internal		999999999		Sum of Target Marketings by month.
For Cattle 0803 Yearling Finishing (Type 808):						
	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.
Liability Amount		Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.
For Cattle 0803 Yearling Finishing (Type 807):						,
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.
		Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.
For Swine 0815:		1	1	1		1	T
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.
Section 3: Simulated Losses Calculation		Three Day Cme Cwt Price	ADM				3-Day Avg CME Cwt Price from ADM A00600.
For X where X is months 2 through 11:							
3		Month X Total Gross Margin Draw Amount(i)	Internal		999999999999999	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	22-31	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 S (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 Pro							
Total Premium Amount	= 1.03 * (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 Page 1 of 6	ADM		9.999	None	Subsidy is based on number of months and deductible. Edit with ADM Subsidy Percent, "A00070".

Record Name: Acreage Record Code: P16_1 Reinsurance Year: 2023 Version: Approved Release Date: 7/1/2022

Insurance Plan Code 82 Livestock Gross Margin

0803 Cattle

0815 Swine

<u>Commodity Code</u> 0847 Dairy Cattle

Sections 1 - 6 are For Cattle and Swine Only									
<u>Calcul</u>	ulations .	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	<u>Rules</u>		
Producer Premium Amount = Total	Premium Amount - Subsidy Amount	Producer Premium Amount	P16	75	999999999	Round to whole number			

Record Name: Acreage Record Code: P16_1 Reinsurance Year: 2023 Version: Approved Release Date: 7/1/2022

Insurance Plan Code 82 Livestock Gross Margin

0803 Cattle

0815 Swine

Commodity Code

0847 Dairy Cattle

		Se	ctions 1 - 6 are For Cattle and	Swine On	lv			
		<u>Calculations</u>	Field Name	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
ection 5: Beginning Farmer and Ranche	r (BFR),	Veteran Farmer Rancher (VFR) and Conservation Compliance (CC) Su	bsidy Calculations					<u> </u>
Dana Cultaida Assaurat			Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicab
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 Premit 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	
ection 6: A&O Expense Subsidy								
A&O Expense Subsidy Amount =		= Total Premium Amount * A&O Expense Subsidy Percent	A&O Expense Subsidy Amount	P16	76	9999999999.99	Round to whole number	Cupped by the standard rule of \$1 if applica
	=		A&O Expense Subsidy Percent	ICE				Edit with A & O Expense Subsidy Percent frr the A & O Expense Subsidy ICE, "D00097".
		The Fol	lowing Sections are Applicabl	e for Dairy	Cattle			
		Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
ection 7: Gross Margin Guarantee Amo	ount Cal	culation						
or X where X is months 2 through 11:			T				1	1
			Month X Expected Feed Cost Amount	Internal		9999999999.99	Round to 2 decimals	Dollars and Cents.
			Month X Corn Equivalent Amount	P16	32-41	9999.999999		
Nonth 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	* Month X Corn Price	P16	32-41	9999.99999		Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C'
nonth X Expected Feed Cost Amount	=		* Month X Corn Price		32-41 42-51			
	=	Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalent	* Month X Corn Price Month X Soybean Meal Equivalent	ADM		9999.9999		Amount from ADM LGM Gross Margin,
Nonth X Expected Feed Cost Amount or X where X is months 2 through 11:	=	Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalen	* Month X Corn Price Month X Soybean Meal Equivalent Amount Month X Soymeal Price	ADM P16		9999.99999		Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C' Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin,
	=	Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalen	* Month X Corn Price Month X Soybean Meal Equivalent Amount	ADM P16		9999.99999	Round to 2 decimals	Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin,
	=	Month X Corn Price), 4) + ROUND((Month X Soybean Meal Equivalen	* Month X Corn Price Month X Soybean Meal Equivalent Amount Month X Soymeal Price Month X Total Expected Gross Margin Amount	ADM P16 ADM		9999.9999 9999.99999 9999.9999	Round to 2 decimals	Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'C Equal to Month X Expected Gross Margin Amount from ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'S

Record Name: Acreage
Record Code: P16_1

Reinsurance Year: 2023 Version: Approved Release Date: 7/1/2022

Insurance Plan Code 82 Livestock Gross Margin

0803 Cattle

0815 Swine

<u>Commodity Code</u> 0847 Dairy Cattle

Sections 1 - 6 are For Cattle and Swine Only									
	<u>Calculations</u>	<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>	<u>Rules</u>		
Total Expected Gross Margin Amount	11 = ∑ (Month X Total Expected Gross Margin Amount) X=2	Total Expected Gross Margin Amount	Internal		9999999999.99	IRound to 2 decimals	Dollars and Cents. Sum of Expected Gross Margin Amounts for months 2 through 11.		

Record Name: Acreage Record Code: P16_1 Reinsurance Year: 2023 Version: Approved Release Date: 7/1/2022

Insurance Plan Code			82 Livestock Gross Margin					
Commodity Code		0803 Cattle 0847 Dairy Cattle	0815 Swine					
		Section	ons 1 - 6 are For Cattle and	Swine Onl	у			
		Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Total Target Market Amount	=	11 Σ (Month X Target Market Amount) X=2	Total Target Market Amount Month X Target Market Amount	Internal P16	22-31	999999999		
Gross Margin Guarantee Amount	=	Total Expected Gross Margin Amount - (Deductible Amount * Total Target Market Amount)	Gross Margin Guarantee Amount Deductible Amount	P16	53 52	9999999999.99	Round to 2 decimals	Value can be negative.
		Tal Section and Control of the Contr	Total Target Market Amount	Internal	32	999999999		Sum of Target Marketings by month.
Section 8: Liability Calculation					T		-	_
Liability Amount	=	Liability Milk Price * Total Target Market Amount	Liability Amount Liability Milk Price	P16 ADM	70	999999999		From ADM LGM Gross Margin, "A00600," where Market Symbol Code is 'DA'.
Section 9: Simulated Losses Calculation								
For X where X is months 2 through 11:							1	
			Month X Feed Cost Draw Amount(i)	Internal		9999999999.99	Round to 2 decimals	Dollars and Cents.
	ROUND((Month X Corn Equivalent Amount * (Round (2000/56),16) *	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."
For X where X is months 2 through 11:					1		T	1
		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.
Month X Gross Margin Draw Amount(i)	=		Month X Target Market Amount	P16	22-31	999999		
			Dairy Month X Margin Draw Amount(i)	ADM		99999.99		From ADM LGM Draw, "A00610."
Total Simulated Gross Margin Amount(i)	=	11 ∑ (Month X Gross Margin Draw Amount(i)) X=2	Total Simulated Gross Margin Amount(i)	Internal		999999999999999999999	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	
Section 10: Total Premium, Subsidy, and F	Produc							
Total Premium Amount	=	1.03 * (1/500) * Simulated Loss Amount	Total Premium Amount	P16	71	999999999	Round to whole number	
Subsidy Amount	=	Total Premium Amount * Subsidy Percent	Subsidy Amount Subsidy Percent	P16 ADM	72	999999999	Round to whole number	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	
Section 11: Beginning Farmer and Rancher	r (BFR)	, Veteran Farmer Rancher (VFR) and Conservation Compliance (CC) Subsi	dy Calculations					1
Base Subsidy Amount	=	Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		9999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.
			Subsidy Percent	ADM		9.999		Beginning Farmer Rancher/Veteran Farmer
BFR/VFR Subsidy Amount	=	Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount Page 5 of 6	Internal		999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).

Record Name: Acreage
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0803 Cattle

0815 Swine

Commodity Code 0847 Dairy Cattle

Sections 1 - 6 are For Cattle and Swine Only									
		<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules_	
			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 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		