Exhibit Name:	Indemnity Calculations		
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Exhibit Number: P21-13, Plans 16 & 17		**Reinsurance Year:** 2018	
Record Name: Acreage Claim		**Version:** Approved	
Record Code: P21		**Release Date:** 9/21/2023	

Insurance Plan Code	16 Margin Protection	17 Margin Protection with Harvest Price Option	

Commodity Code	0011 Wheat	0018 Rice	0041 Corn	0081 Soybeans

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Stage Guarantee Calculation						
When Insurance Plan Code equals 16:	Trigger Margin Amount	Internal		99999999.99	Round to 2 decimals	
Trigger Margin Amount = Expected Margin Amount - [(Expected Revenue Amount) * (1.00 - Coverage Level Percent)]	Expected Margin Amount	ADM		99999.999999		Edit with ADM Price, "A00810".
	Coverage Level Percent	P14	34			
	Expected Revenue Amount	ADM		99999999.99	Round to 2 decimals	Edit with ADM Price, "A00810".
When Insurance Plan Code equals 17:	Trigger Margin Amount	Internal		99999999.99	Round to 2 decimals.	
Trigger Margin Amount = Expected County Yield * MAX(Projected Price, Harvest Price) - (Expected Revenue Amount - Expected Margin Amount) - [Expected County Yield * MAX(Projected Price, Harvest Price)] * (1 - Coverage Level Percent)	Expected County Yield	ADM		99999999.99	None	Edit with ADM Price, "A00810". Expected County Yield will be stored in Expected Index Value in "A00810".
	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".
	Harvest Price	ADM		99999.9999		Edit with ADM Price, "A00810".
For Both Plans:	Acre Stage Guarantee Amount	P21	58	99999999.99	Round to 2 decimals	The larger of subtraction or zero.
Acre Stage Guarantee Amount = MAX(Trigger Margin Amount - Final Margin Amount,0)	Final Margin Amount	ADM		99999.999999		Edit with ADM Price, "A00810".
Section 2: Loss Guarantee Calculation						
When Insurance Plan Code equals 16:	Loss Guarantee Amount	P21	60	99999999.99	Round to whole number	
	Dollar Amount of Insurance	Internal		99999999.99	None	The P11 Dollar Amount of Insurance used in determination of P11 Liability.
	Determined Acreage	P21	18	99999999.99	None	
Loss Guarantee Amount = MIN(Dollar Amount of Insurance, Acre Stage Guarantee Amount * Price Election Percent) * Determined Acreage * Insured Share Percent * Liability Adjustment Factor	Insured Share Percent	P11	43	9.9999	None	
	Price Election Percent	P14	35	9.9999	2 decimal places	Protection Factor. This will be the Price Election Percent reported on the P14 and used in determination of P11 Dollar Amount of Insurance. If Native Sod applies to the associated P11 record, the Price Election Percent MUST equal 0.65 (65%).
	Liability Adjustment Factor	P21	39	9.999999	None	

Insurance Plan Code	16 Margin Protection	17 Margin Protection with Harvest Price Option		

Commodity Code	0011 Wheat	0018 Rice	0041 Corn	0081 Soybeans

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
When Insurance Plan Code equals 17: Final Dollar Amount of Insurance = MAX(Projected Price, Harvest Price) * Expected County Yield * Coverage Level Percent * Price Election Percent	Final Dollar Amount of Insurance	Internal		99999999.99	None	Calculated Value. This is not the Dollar Amount of Insurance used to determine the P11 liability.
Loss Guarantee Amount = MIN(Final Dollar Amount of Insurance, Acre Stage Guarantee Amount * Price Election Percent) * Determined Acreage * Insured Share Percent * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to whole number	
	Liability Adjustment Factor	P21	39	9.999999	None	
Section 3: Indemnity Calculation						
With Base (companion) policy (all unit structures):	Preliminary Indemnity Amount	P21	62	S9999999999	Round to whole number	
Preliminary Indemnity Amount = MIN(MAX(Loss Gurarantee Amount - Base (Companion) Policy Preliminary Indemnity Amount,0), Loss Guarantee Amount)	Base (Companion) Policy Preliminary Indemnity Amount	Internal		S9999999999	Round to whole number	An MP P21 record will still need to be created in the scenario when Base (Companion) Policy Preliminary Indemnity Amount is 0 because no claim was made on the base policy.
Without Base (companion) policy: Preliminary Indemnity Amount = Loss Guarantee Amount	Preliminary Indemnity Amount	P21	62	S9999999999	Round to whole number	
All policies: Indemnity Amount = Preliminary Indemnity Amount	Indemnity Amount	P21	63	S9999999999	Round to whole number	