

Exhibit Name: Indemnity Calculations		Reinsurance Year: 2020				
Exhibit Number: P21-2, Plan 02 & 03		Version: Approved				
Record Name: Acreage Claim		Release Date: 12/20/2019				
Record Code: P21						
Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion				
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Stage Guarantee Calculation						
Guarantee Per Acre1 = Approved Yield * Coverage Level Percent	Guarantee Per Acre1	Internal		999999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Common Crop Insurance Policy 'production guarantee (per acre)'. Guarantee Per Acre1 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
Cottonseed Endorsement Option "SE": Modified Yield = Approved Yield * Option Conversion Factor	Modified Yield	Internal		99999999.99	Round to whole number.	Information (Approved Yield and Insured Share Percent) will be obtained from Cotton P11 record.
	Approved Yield	P11	42	99999999.99	None	
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Guarantee Per Acre1 = Modified Yield * Coverage Level Percent	Guarantee Per Acre1	Internal		99999999.99	Round to whole number.	
	Coverage Level Percent	P14	34	9.9999	None	
Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor	Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Guarantee Per Acre2 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Guarantee Adjustment Factor	P11	69	0.999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 2: Loss Guarantee Calculation						
Loss Guarantee Amount = Guarantee Per Acre ² * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Revenue Conversion Production to Count = Production to Count Quantity * Harvest Price	Revenue Conversion Production to Count	P21	45	99999999.99	Round to nearest dollar and cents.	
	Production to Count Quantity	P21	34	99999999.99		
	Harvest Price	ADM		99999.9999	None	Edit with ADM Price, "00810". If Contract Price was submitted on the P11 then Harvest Price will be adjusted by difference between Projected Price and Contract Price. If Harvest Price has not been released for revenue Protection, "02", the Projected Price or Contract Price (whichever applies) can be used for validation of Revenue to Count.
Section 3: Indemnity Calculation						
Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	59	\$99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	62	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	63	\$9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity = ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		\$9999999999	Round to whole number.	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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Section 4: Stage Guarantee Calculation
Replant Payment for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03"

When Stage Code equals Replanted, "R", $\text{Guarantee Per Acre1} = \text{Approved Yield} * \text{Coverage Level Percent}$	Guarantee Per Acre1	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Common Crop Insurance Policy 'production guarantee (per acre)'. Guarantee Per Acre1 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
$\text{Guarantee Per Acre2} = \text{Guarantee per Acre1} * \text{Guarantee Adjustment Factor}$	Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Guarantee Per Acre2 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Guarantee Adjustment Factor	P11	69	0.999	None	

Insurance Plan Code		02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion		
Commodity Code		0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts	
	0015 Canola	0041 Corn	0051 Grain Sorghum	0078 Sunflowers		
	0018 Rice	0043 Popcorn	0067 Dry Peas	0081 Soybeans	0091 Barley	
Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Commodity Code not equal Dry Beans, "0047" or Peanuts, "0075": Acre Stage Guarantee Amount = Lesser of: (20% of Guarantee Per Acre2 = OR Maximum Replant Guarantee Per Acre) * Price Election Amount	Acre Stage Guarantee Amount	P21	58	999999999.99	Round to nearest dollar and cents.	Not used in determination of Loss Guarantee.
	Price Election Amount	P11	45	99999.999	None	Based on Projected Price or Contract Price if applicable. White (Type Code 341) and Waxy (Type Code 381) Specialty Type Corn will use the Projected Price for buyup. For CAT coverage, use the CAT price.
	Maximum Replant Guarantee Per Acre	ICE				Edit with SPOI "D00129".
	20% of Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Result of '20% of Guarantee Per Acre2' will be used in 'Acre Stage Guarantee Amount' calculation and 'Loss Guarantee Amount' calculation. Value of '20% of Guarantee Per Acre2' should be rounded before compare to 'Maximum Replant Guarantee Per Acre'. If Unit of Measure = LBS Round(Guarantee Per Acre2 * 0.20, 0) If Unit of Measure = Tons Round(Guarantee Per Acre2 * 0.20, 2) Other Unit of Measures Round(Guarantee Per Acre2 * 0.20, 1)
Commodity Code equal Peanuts, "0075": Acre Stage Guarantee Amount = Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with SPOI "D00129".

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Commodity Code equal Dry Beans, "0047": Lesser of: (Insured's Actual Cost Or Acre Stage Guarantee Amount = 10% of Guarantee Per Acre2 Or Maximum Replant Guarantee Per Acre) * Price Election Amount	Acre Stage Guarantee Amount	P21	58	999999999.99	Round to nearest dollar and cents.	Not used in determination of Loss Guarantee Amount
	Price Election Amount	P11	45	99999.9999	None	Based on Projected Price.
	Maximum Replant Guarantee Per Acre	ICE				Edit with SPOI ICE "D00129". If lesser of submit in AIP Acre Stage Guarantee field 36 as pounds before price.
	10% of Guarantee Per Acre2	Internal			99999999.99	Pounds, "LBS", Round to whole Number.
	Insured's Actual Cost	P21	36	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee field if lesser of converted to pounds per Dry Beans Loss Adjustment Handbook.

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 5: Replant Payment Loss Guarantee Calculation						
Commodity Code not equal Dry Beans, "0047" or Peanuts, "0075": Lesser of ((20% of Guarantee Per Acre2) or Maximum Loss Guarantee Amount = Replant Guarantee Per Acre * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Commodity Code equal Dry Beans, "0047": Lesser of (Insured's Actual Cost or Round(10% of Guarantee Per Acre2, 0) or Maximum Replant Loss Guarantee Amount = Replant Guarantee Per Acre * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Commodity Code equal Peanuts, "0075": Loss Guarantee Amount = Maximum Replant Guarantee Per Acre * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Section 6: Replant Payment Indemnity Calculation						
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Indemnity Amount	P21	63	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
Total Indemnity ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		S99999999999	Round to whole number.	

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Commodity Code			0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts	0015 Canola	0041 Corn	0051 Grain Sorghum	0078 Sunflowers
			0018 Rice	0043 Popcorn	0067 Dry Peas	0081 Soybeans	0091 Barley			
Calculations			Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules		
Section 7: Stage Guarantee Calculation										
Prevented Planting Payment for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03".										
When Stage Code equals:										
Prevented Planting Option 2, "P2", Prevented Planting Add 10 Percent, "PT", Prevented Planting Add 5 Percent, "PF" Guarantee Per Acre1 = Approved Yield * Coverage Level Percent			Guarantee Per Acre1	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Common Crop Insurance Policy 'production guarantee (per acre)'. Guarantee Per Acre1 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).		
			Approved Yield	P11	42	99999999.99	None			
			Coverage Level Percent	P14	34	9.9999	None			
Cottonseed Endorsement Option "SE": Modified Yield = Approved Yield * Option Conversion Factor			Modified Yield	Internal		99999999.99	Round to whole number.	Information (Approved Yield and Insured Share Percent) will be obtained from Cotton P11 record.		
			Approved Yield	P11	42	99999999.99	None			
			Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".		
Guarantee Per Acre1 = Modified Yield * Coverage Level Percent			Guarantee Per Acre1	Internal		99999999.99	Round to whole number.			
			Coverage Level Percent	P14	34	9.9999	None			
Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor			Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Guarantee Per Acre2 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).		
			Guarantee Adjustment Factor	P11	69	0.999	None			
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount			Acre Stage Guarantee Amount	P21	58	999999999.99	Round to nearest dollar and cents.	Common Crop Insurance Policy 'revenue protection guarantee (per acre)'. Not used in determination of Loss Guarantee.		
			Price Election Amount	P11	45	99999.9999	None	Based on Projected Price or Contract Price if applicable. White (Type Code 341) and Waxy (Type Code 381) Specialty Type Corn will use the Projected Price for buyup. For CAT coverage, use the CAT price.		

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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Section 8: Prevented Planting Payment Loss Guarantee Calculation

$\text{Loss Guarantee Amount} = \text{Guarantee Per Acre2} * \text{Price Election Amount} * \text{Determined Acreage} * \text{Liability Adjustment Factor}$	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Guarantee Per Acre2 should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Price Election Amount	P11	45	99999.9999	None	Based on Projected Price or Contract Price if applicable. White (Type Code 341) and Waxy (Type Code 381) Specialty Type Corn will use the Projected Price for buyup. For CAT coverage, use the CAT price.
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	

Section 9: Prevented Planting Payment Indemnity Calculation

$\text{Preliminary Indemnity Amount} = \text{Loss Guarantee Amount} * \text{Insured Share Percent}$	Preliminary Indemnity Amount	P21	62	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
$\text{Indemnity Amount} = \text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}$	Indemnity Amount	P21	63	S9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
$\text{Total Indemnity} = \sum \text{Indemnity Amount for the Unit}$	Total Indemnity	Internal		S9999999999	Round to whole number.	

Section 10: Stage Guarantee Calculation

Malting Barley Price and Quality Endorsement (ME)

$\text{Guarantee Per Acre1} = \text{Approved Yield} * \text{Coverage Level Percent}$	Guarantee Per Acre1	Internal		999999999.9	Round to nearest whole pounds, nearest hundredth for tonnage commodities, or nearest tenths for other units of measure.	Common Crop Insurance Policy 'production guarantee (per acre)'. Common Crop Insurance Policy 'production guarantee (per acre)'.
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor	Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	
	Guarantee Adjustment Factor	P11	69	0.999	None	
When the Insurance Plan Code is 02, Revenue Protection:						
ME Harvest Price = Harvest Price + (Contract Price - Projected Price)	ME Harvest Price	Internal		9999.9999	Round to 4 decimals.	
	Contract Price	P11	46	9999.9999	None	The Contract Price (ME Projected Price) that was submitted on P11 (capped by the Max Contract Price from ADM) and used to calculate the premium.
	Projected Price	ADM		99999.9999	None	The ADM published value with no additional calculations performed. Denoted in Price ADM as barley projected price with ME option.
	Harvest Price	ADM		99999.9999	None	The ADM published value with no additional calculations performed. Denoted in Price ADM as barley harvest price with ME option.
Price Election Amount = MAX(Contract Price, ME Harvest Price) * Price Election Percent	Price Election Amount	Internal		9999.9999	Round to 4 decimals.	
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code equals "02".

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Calculations			Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules			
When the Insurance Plan Code is 03, Revenue Protection Harvest Price Exclusion:											
Price Election Amount = Contract Price * Price Election Percent			Price Election Amount	Internal		9999.9999	Round to 4 decimals.				
			Contract Price	P11	46	9999.9999	None	The Contract Price (ME Projected Price) that was submitted on P11 (capped with Max Contract Price from ADM) and used to calculate the premium.			
			Price Election Percent	ICE		9.9999	None				
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount			Acre Stage Guarantee Amount	P21	58	999999999.99	Round to nearest dollar and Cents	Common Crop Insurance Policy 'revenue protection guarantee (per acre)'. Not used in determination of Loss Guarantee.			
			Price Election Amount	P11	45	99999.9999	None				
Section 11: Malting Barley Loss Guarantee Calculation											
Loss Guarantee Amount = Guarantee Per Acre2 * Price Election Amount * Determined Acreage * Liability Adjustment Factor			Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.				
			Determined Acreage	P21	18	99999999.99	None				
			Liability Adjustment Factor	P21	39	9.999999	None				
When the Insurance Plan Code is 02, Revenue Protection:											
Revenue Conversion = MAX(Production to Count Quantity * ME Harvest Price, 0) Production To Count			Revenue Conversion Production To Count	P21	45	99999999.99	Round to nearest dollar and cents.	Cannot equal less than 0.			
			Production to Count Quantity	P21	34	99999999.99	None				
			ME Harvest Price	Internal		9999.9999					
When the Insurance Plan Code is 03, Revenue Protection Harvest Price Exclusion:											
Revenue Conversion = Production to Count Quantity * Price Election Amount Production To Count			Revenue Conversion Production To Count	P21	45	99999999.99	Round to nearest dollar and cents.				
			Production to Count Quantity	P21	34	99999999.99	None				
			Price Election Amount	P11	45	99999.9999	None				

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules		
Section 12: Malting Barley Indemnity Calculation								
Unit Deficiency Quantity = $\frac{\text{Loss Guarantee Amount} - \text{Revenue Conversion}}{\text{Production to Count}}$	Unit Deficiency Quantity	P21	59	S9999999.99	Round to nearest dollar and cents.			
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	62	S9999999999	Round to whole number.			
	Insured Share Percent	P11	43	9.9999	None			
Indemnity Amount = $\frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}$	Indemnity Amount	P21	63	S9999999999	Round to whole number			
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".		
Total Indemnity \sum Indemnity Amount for the Unit	Total Indemnity	Internal		S9999999999	Round to whole number.			

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Downed Rice Payment, option "DC", for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03", Stage Code = "DQ".						If Determined Acreage is <= Insured Acreage10 then no payment; if Determined Acreage is > Insured Acreage10 and < Insured Acreage50 then payment with deductible; if Determined Acreage is => Insured Acreage50 then payment without deductible.
Section 13: Downed Rice Payment Loss Guarantee Calculation						
Insured Acreage10 = Reported Acreage * 10%	Insured Acreage10	Internal		99999999.99	Round to 1 decimal.	
	Reported Acreage	P11	48	99999999.99	None	Summed P11 DRE reported acreage for the unit.
Insured Acreage50 = Reported Acreage * 50%	Insured Acreage50	Internal		99999999.99	Round to 1 decimal.	
	Reported Acreage	P11	48	99999999.99	None	Summed P11 DRE reported acreage for the unit.
Determined Acreage = Harvested Downed Rice Acreage	Determined Acreage	P21	18	99999999.99	None	Harvested Downed Rice Acreage for the unit.
Payable Downed Rice Acreage = OR Without deductible: Determined Acreage	With deductible: round(Determined Acreage - Insured Acreage10,1) * 1.25					
	Payable Downed Rice Acreage	Internal		99999999.99	Round to 1 decimal.	This will be the determined payable downed rice acres for the unit.
Loss Guarantee Amount = Payable Downed Rice Acreage * Harvest Expense Amount * Price Election Percent * Liability Adjustment Factor	Loss Guarantee Amount	P21	60	99999999.99	Round to nearest dollar and cents.	
	Harvest Expense Amount	ADM				Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
	Price Election Percent	P14	35	9.9999	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Section 14: Downed Rice Payment Indemnity Calculation						
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Indemnity Amount	P21	63	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
Total Indemnity ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		S9999999999	Round to whole number.	Only Downed Rice records, no base Rice records.