

Exhibit Name: Indemnity Calculations
 Exhibit Number: P21-2, Plan 02 & 03
 Record Name: Acreage Claim
 Record Code: P21

Reinsurance Year: 2011
 Version: Approved
 Release Date: 8/11/2015

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 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley	

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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Section 1: Stage Guarantee Calculation

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)'.
	Approved Yield	P11	46	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. Edit with ADM Option Rate, "A01060".
	Approved Yield	P11	46	99999999.99	None	
	Option Conversion Factor	ADM		9.9999	None	
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 Adjustment Factor	P11	41	0.999	None	

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Revenue Protection, "02", Price Election Amount Calculation: $\text{Price Election Amount} = (\text{greater of Projected Price or Harvest Price}) * \text{Price Election Percent}$	Price Election Amount	Internal		9999.999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [\$9.999].	
	Projected Price	ADM		99999.9999	None	Edit with ADM Price, "A00810".
	Harvest Price	ADM		99999.9999	None	Edit with ADM Price, "00810".
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code "02".

Revenue Protection with Harvest Price Exclusion, "03", Price Election Amount Calculation: $\text{Price Election Amount} = \text{Projected Price} * \text{Price Election Percent}$	Price Election Amount	Internal		9999.999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [\$9.999].	
	Projected Price	ADM		99999.9999	None	Edit with ADM Price, "A00810".
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code equals "03".

$\text{Acre Stage Guarantee Amount} = \text{Guarantee Per Acre}^2 * \text{Price Election Amount}$	Acre Stage Guarantee Amount	Internal	36	999999999.99	Round to nearest dollar and cents.	Common Crop Insurance Policy 'revenue protection guarantee (per acre)'. Not used in determination of Loss Guarantee.
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Section 2: Loss Guarantee Calculation

Loss Guarantee Amount = $\frac{\text{Guarantee Per Acre}^2 * \text{Price Election Amount} * \text{Determined Acreage} * \text{Liability Adjustment Factor}}{\text{Determined Acreage} * \text{Liability Adjustment Factor}}$	Loss Guarantee Amount	P21	46	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	38	9.999999	None	
Revenue Conversion Production to Count = $\frac{\text{Revenue Conversion Production to Count}}{\text{Production to Count Quantity}} * \text{Harvest Price}$	Revenue Conversion Production to Count	P21	46	99999999.99	Round to nearest dollar and cents.	
	Production to Count Quantity	P21	34	99999999.99	None	
	Harvest Price	ADM		99999.9999	None	Edit with ADM Price, "00810". If Harvest Price has not been released for revenue Protection, "02", the Projected Price can be used for validation of Revenue to Count.

Section 3: Indemnity Calculation

Unit Deficiency Quantity = $\frac{\text{Loss Guarantee Amount} - \text{Revenue Conversion Production to Count}}{\text{Production to Count}}$	Unit Deficiency Quantity	P21	45	S99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = $\text{Unit Deficiency Quantity} * \text{Insured Share Percent}$	Preliminary Indemnity Amount	P21	49	S9999999999	Round to whole number.	
	Insured Share Percent	P11	46	9.999	None	
Indemnity Amount = $\frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}{\text{Multiple Commodity Adjustment Factor}}$	Indemnity Amount	P21	50	S9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity = $\sum \text{Indemnity Amount for the Unit}$	Total Indemnity	Internal		S9999999999	Round to whole number.	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules

Section 4: Stage Guarantee Calculation
Replant Payment for Revenue Protection, "02", and Revenue Protection with Harvest Price Exclusion, "03"

<p>When Stage Code equals Replanted, "R",</p> <p>Guarantee Per Acre1 = Approved Yield * Coverage Level Percent</p>	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)'.
	Approved Yield	P11	46	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	
<p>Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor</p>	Guarantee Per Acre2	Internal	40	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	75	0.999	None	
	Acre Stage Guarantee Amount	Internal	36	99999999.99	Round to nearest dollar and cents.	Not used in determination of Loss Guarantee.
	Price Election Amount	P11	49	99999.999	None	Based on Projected Price.
	Maximum Replant Guarantee Per Acre	ICE				Edit with SPOI ICE "D00129".

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<u>Commodity Code</u>		0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley		
<u>Calculations</u>	<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
Lesser of: Acre Stage Guarantee Amount = (20% of Guarantee Per Acre2) OR Maximum Replant Guarantee Per Acre) * Price Election Amount	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)

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Insurance Plan Code 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

Commodity Code 0011 Wheat 0021 Cotton 0078 Sunflower
 0015 Canola 0041 Corn 0081 Soybeans
 0018 Rice 0051 Grain Sorghum 0091 Barley

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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Section 5: Replant Payment Loss Guarantee Calculation

Lesser of ((20% of Guarantee Per Acre ²) or Maximum Loss Guarantee Amount = Replant Guarantee Per Acre) * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	48	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	38	9.999999	None	

Section 6: Replant Payment Indemnity Calculation

Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Indemnity Amount	P21	51	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	48	9.999	None	
Total Indemnity = ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		\$9999999999	Round to whole number.	

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Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 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".

<p>When Stage Code equals:</p> <p>Prevented Planting Option 2, "P2", Prevented Planting Add 10 Percent, "PT", Prevented Planting Add 5 Percent, "PF"</p> <p>Guarantee Per Acre1 = Approved Yield * Coverage Level Percent</p>	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)'.
	Approved Yield	P11	46	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	
<p>Cottonseed Endorsement Option "SE":</p> <p>Modified Yield = Approved Yield * Option Conversion Factor</p> <p>Guarantee Per Acre1 = Modified Yield * Coverage Level Percent</p>	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	46	99999999.99	None	
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
	Guarantee Per Acre1	Internal		99999999.99	Round to whole number.	
	Coverage Level Percent	P14	34	9.9999	None	
<p>Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor</p>	Guarantee Per Acre2	Internal	101	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	75	0.999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount	Acre Stage Guarantee Amount	Internal	36	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	49	99999.9999	None	Based on Projected Price.

Section 8: Prevented Planting Payment Loss Guarantee Calculation

Loss Guarantee Amount = Guarantee Per Acre2 * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	46	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	38	9.999999	None	

Section 9: Prevented Planting Payment Indemnity Calculation

Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Preliminary Indemnity Amount	P21	49	S9999999999	Round to whole number.	
	Insured Share Percent	P11	47	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	50	S9999999999	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		S9999999999	Round to whole number.	

Section 10: Stage Guarantee Calculation

Malting Barley Price and Quality Endorsement

Guarantee Per Acre1 = Approved Yield * 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)'.
	Approved Yield	P11	46	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	

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Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor	Guarantee Per Acre2	Internal	101	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	75	0.999	None	
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount	Acre Stage Guarantee Amount	Internal		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	49	99999.9999	None	

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<u>Calculations</u>	<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
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Section 11: Malting Barley Loss Guarantee Calculation

Loss Guarantee Amount = Guarantee Per Acre ² * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	46	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	17	99999999.99	None	
	Liability Adjustment Factor	P21	38	9.999999	None	
Revenue Conversion Production To Count = Production to Count Quantity * Price Election Amount	Revenue Conversion Production To Count	P21	46	99999999.99	Round to nearest dollar and cents.	
	Production to Count Quantity	P21	34	99999999.99	None	
	Price Election Amount	P11	49	99999.9999	None	

Section 12: Malting Barley Indemnity Calculation

Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	47	S99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	49	S9999999999	Round to whole number.	
	Insured Share Percent	P11	48	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	50	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.	