

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

Reinsurance Year: 2025
Version: Approved
Release Date: 6/27/2024

Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
Commodity Code	0011 Wheat	0021 Cotton	0051 Grain Sorghum	0081 Soybeans
	0015 Canola	0041 Corn	0067 Dry Peas	0091 Barley
	0016 Oats	0043 Popcorn	0075 Peanuts	0094 Rye
	0018 Rice	0047 Dry Beans	0078 Sunflowers	0805 Weaned Calves

<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 1: Stage Guarantee Calculation

$\text{Guarantee Per Acre1} = \text{Approved Yield} * \text{Coverage Level Percent}$	Guarantee Per Acre1	Internal		99999999.99	<p>When Unit of Measure equals Pounds, "LBS", then Round to whole Number.</p> <p>When Unit of Measure equals Tons, "Tons", then Round to 2 decimals.</p> <p>Otherwise, Round to 1 decimal.</p>	<p>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).</p>
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
Cottonseed Endorsement Option "SE": $\text{Modified Yield} = \text{Approved Yield} * \text{Option Conversion Factor}$	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".
$\text{Guarantee Per Acre1} = \text{Modified Yield} * \text{Coverage Level Percent}$	Guarantee Per Acre1	Internal		99999999.99	Round to whole number.	
	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	<p>When Unit of Measure equals Pounds, "LBS", then Round to whole Number.</p> <p>When Unit of Measure equals Tons, "Tons", then Round to 2 decimals.</p> <p>Otherwise, Round to 1 decimal.</p>	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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Revenue Protection, "02", Price Election Amount Calculation:

$\text{Price Election Amount} = \frac{\text{MAX}(\text{Projected Price}, -\text{Harvest Price}) * \text{Price Election Percent}}{\text{Percent}}$	Price Election Amount	Internal		9999.999	<p>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].</p> <p>When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078", or Cottonseed, "0021" (Option 'SE'); round to nearest one-tenth cent [\$9.999].</p> <p>When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas, "0067" round to nearest one-hundredth cent [\$9.9999].</p>	
	Projected Price	ADM		99999.9999	None	Edit with ADM Price, "A00810".
	Contract Price	P11	46	9999.9999	None	Contract Price that was submitted on P11 (capped with Max Contract Price from ADM).
	Harvest Price	Internal		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".

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Revenue Protection, "02", Price Election Amount Calculation when a contract price is submitted:

Adjusted Harvest Price = [(Contract Price - Projected Price) + Harvest Price]	Adjusted Harvest Price	Internal		99999.9999	None	
Price Election Amount = MAX(Adjusted Harvest Price, Contract Price) * Price Election Percent	Price Election Amount	Internal		9999.999	When the result is based on a Contract Price for specialty types Corn, Soybeans, or Barley, round to nearest one hundredth cent [\$9.9999].	
					When the result is based on a Contract Price for Speciality Type Canola round to nearest hundredth cent [\$9.9999]. When commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas, "0067" round to nearest one-hundredth cent [\$9.9999].	

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Commodity Code	0011 Wheat 0015 Canola 0016 Oats 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 0094 Rye 0805 Weaned Calves

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Revenue Protection with Harvest Price Exclusion, "03", Price Election Amount Calculation: $\text{Price Election Amount} = \text{Projected Price (or Contract Price if applicable)} * \text{Price Election Percent}$	Price Election Amount	Internal		9999.999	<p>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]. If result is based on Contract Price for specialty types Corn, Soybeans or Barley, round to nearest one hundredth cent (\$9.9999).</p> <p>When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078", or Cottonseed, "0021" (Option 'SE'); round to nearest one-tenth cent [\$9.999]. If result is based on Contract Price for specialty type Canola; round to nearest one hundredth cent (\$9.9999).</p> <p>When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas, "0067" round to nearest one-hundredth cent [\$9.9999].</p>	
	Projected Price	ADM		99999.9999	None	Edit with ADM Price, "A00810".
	Contract Price	P11	46	9999.9999	None	Contract Price that was submitted on P11 (capped with Max Contract Price from ADM).
	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		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

$\text{Loss Guarantee Amount} = \frac{\text{Guarantee Per Acre}^2 * \text{Price Election Amount}}{\text{Determined Acreage} * \text{Liability Adjustment Factor}}$	Loss Guarantee Amount	P21	67	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
$\text{Revenue Conversion Production to Count} = \text{Production to Count Quantity} * \text{Harvest Price}$	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

$\text{Unit Deficiency Quantity} = \frac{\text{Loss Guarantee Amount} - \text{Revenue Conversion Production to Count}}$	Unit Deficiency Quantity	P21	66	S99999999.99	Round to nearest dollar and cents.	
$\text{Preliminary Indemnity Amount} = \text{Unit Deficiency Quantity} * \text{Insured Share Percent}$	Preliminary Indemnity Amount	P21	69	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
$\text{Indemnity Amount} = \frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}$	Indemnity Amount	P21	70	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.	

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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", 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	
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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<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>
Commodity Code not equal Dry Beans, "0047" or Peanuts, "0075": Lesser of: (20% of Guarantee Per Acre2 Acre Stage Guarantee Amount = OR Maximum Replant Guarantee Per Acre) * Price Election Amount	Acre Stage Guarantee Amount	P21	65	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			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.
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	65	99999999.99	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.	Result of '10% of Guarantee Per Acre2' will be used in 'Acre Stage Guarantee Amount' calculation and 'Loss Guarantee Amount' calculation. Value of '10% of Guarantee Per Acre2' should be rounded before compare to 'Maximum Replant Guarantee Per Acre'. If lesser of submit in AIP Acre Stage Guarantee field 36 as pounds before price. Unit of Measure "LBS", Round(Guarantee Per Acre2 * 0.10, 0)
	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.	

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 Replant Guarantee Per Acre) * Price Election Amount * Determined Acreage * Liability Adjustment Factor Loss Guarantee Amount =	Loss Guarantee Amount	P21	67	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 Guarantee Per Acre) * Price Election Amount * Determined Acreage * Liability Adjustment Factor Loss Guarantee Amount =	Loss Guarantee Amount	P21	67	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	

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Commodity Code equal Peanuts, "0075": Loss Guarantee Amount = Maximum Replant Guarantee Per Acre * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	67	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	70	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.	

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 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	

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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	65	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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Section 8: Prevented Planting Payment Loss Guarantee Calculation

$\text{Loss Guarantee Amount} = \frac{\text{Guarantee Per Acre2} * \text{Price Election Amount}}{\text{Determined Acreage} * \text{Liability Adjustment Factor}}$	Loss Guarantee Amount	P21	67	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	

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Section 9: Prevented Planting Payment Indemnity Calculation

Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Preliminary Indemnity Amount	P21	69	S999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	70	S999999999	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		S999999999	Round to whole number.	

Section 10: Stage Guarantee Calculation
Malting Barley Price and Quality Endorsement (ME)

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	42	99999999.99	None	
	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	69	0.999	None	

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Commodity Code	0011 Wheat 0015 Canola 0016 Oats 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 0094 Rye 0805 Weaned Calves

<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>
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.

When the Insurance Plan Code is 02, Revenue Protection:

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".

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	65	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	

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

Reinsurance Year: 2025
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Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
Commodity Code	0011 Wheat	0021 Cotton	0051 Grain Sorghum	0081 Soybeans
	0015 Canola	0041 Corn	0067 Dry Peas	0091 Barley
	0016 Oats	0043 Popcorn	0075 Peanuts	0094 Rye
	0018 Rice	0047 Dry Beans	0078 Sunflowers	0805 Weaned Calves

<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

$\text{Loss Guarantee Amount} = \frac{\text{Guarantee Per Acre}^2 * \text{Price Election Amount} * \text{Determined Acreage} * \text{Liability Adjustment Factor}}{\text{Revenue Conversion Production To Count}}$ $\text{Revenue Conversion Production To Count} = \text{MAX}(\text{Production to Count Quantity} * \text{ME Harvest Price}, 0)$	Loss Guarantee Amount	P21	67	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	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		If the Harvest Price has not been released, the Contract Price can be used for validation of Revenue to Count.

Section 12: Malting Barley Indemnity Calculation

$\text{Unit Deficiency Quantity} = \frac{\text{Loss Guarantee Amount} - \text{Revenue Conversion Production to Count}}{\text{Production to Count}}$	Unit Deficiency Quantity	P21	66	S99999999.99	Round to nearest dollar and cents.	
$\text{Preliminary Indemnity Amount} = \text{Unit Deficiency Quantity} * \text{Insured Share Percent}$	Preliminary Indemnity Amount	P21	69	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
$\text{Indemnity Amount} = \frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}{\text{Adjustment Factor}}$	Indemnity Amount	P21	70	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.	

Exhibit Name: Indemnity Calculations
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Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 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 0094 Rye 0805 Weaned Calves

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	9999999.99	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	9999999.99	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 = With deductible: round(Determined Acreage - Insured Acreage10,1) * 1.25 OR Without deductible: Determined Acreage	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 = Amount * Price Election Percent * Liability Adjustment Factor Payable Downed Rice Acreage * Harvest Expense	Loss Guarantee Amount	P21	67	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	70	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.

Exhibit Name: Indemnity Calculations
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Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 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 0094 Rye 0805 Weaned Calves

<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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This Section is Specifically for Weaned Calf Risk Protection, Commodity Code, "0805," Indemnity Calculations.

Section 15: Stage Guarantee Calculation

$\text{Guarantee Per Head1} = \text{Approved Yield} * \text{Coverage Level Percent}$	Guarantee Per Head1	Internal		99999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number.	Guarantee Per Head1 should be rounded to whole pounds for Weaned Calf, "0805".
	Approved Yield	P11	42	99999999.99	None	Approved Yield must be in whole pounds when Commodity Code equals Weaned Calf, "0805."
	Coverage Level Percent	P14	34	9.9999	None	
$\text{Guarantee Per Head2} = \text{Guarantee per Head1} * \text{Guarantee Adjustment Factor}$	Guarantee Per Head2	Internal		99999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number.	Guarantee Per Head2 should be rounded to whole pounds for Weaned Calf, "0805".
	Guarantee Adjustment Factor	P11	69	0.999	None	
$\text{Formulated Producer Projected Price} = \frac{\text{Projected Price} * (1 + \text{Projected Price Adjustment Factor} * (650 - \text{MAX}(200, \text{MIN}(750, \text{Approved Yield})))}{\text{Price}}$	Formulated Producer Projected Price	Internal		9.9999		
	Projected Price	ADM		99999.9999		Edit with ADM Price, "00810".
	Projected Price Adjustment Factor	ADM		9.99999	None	Edit with ADM Price, "00810".
	Approved Yield	P11	42	99999999.99	None	Approved Yield must be in whole pounds when Commodity Code equals Weaned Calf, "0805."
$\text{Formulated Producer Harvest Price} = \frac{\text{Harvest Price} * (1 + \text{Harvest Price Adjustment Factor} * (650 - \text{MAX}(200, \text{MIN}(750, \text{Approved Yield})))}{\text{Price}}$	Formulated Producer Harvest Price	Internal		9.9999		
	Harvest Price	ADM		99999.9999		Edit with ADM Price, "00810".
	Harvest Price Adjustment Factor	ADM		9.99999	None	Edit with ADM Price, "00810".
	Approved Yield	P11	42	99999999.99	None	Approved Yield must be in whole pounds when Commodity Code equals Weaned Calf, "0805."
Revenue Protection, "02", Price Election Amount Calculation: $\text{Price Election Amount} = \text{Max}(\text{Formulated Producer Projected Price}, \text{Formulated Producer Harvest Price}) * \text{Price Election Percent}$	Price Election Amount	Internal		9999.999	When Commodity Code equals Weaned Calf, "0805", round to nearest whole cent [\$9.99].	
	Formulated Producer Projected Price	Internal		99999.9999	None	
	Formulated Producer Harvest Price	Internal		99999.9999	None	
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code "02".

Exhibit Name: Indemnity Calculations
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Insurance Plan Code	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion		
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	0018 Rice	0047 Dry Beans	0078 Sunflowers	0805 Weaned Calves

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Revenue Protection with Harvest Price Exclusion, "03", Price Election Amount Calculation: Price Election Amount = Formulated Producer Projected Price * Price Election Percent	Price Election Amount	Internal		9999.999	When Commodity Code equals Weaned Calf, "0805", round to nearest whole cent [\$9.99].	
	Formulated Producer Projected Price	Internal		99999.9999	None	
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code equals "03".
Head Count Stage Guarantee Amount = Guarantee Per Head2 * Price Election Amount	Head Count 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.

Section 16: Loss Guarantee Calculation

Loss Guarantee Amount = Guarantee Per Head2 * Price Election Amount * Determined Head Count * Liability Adjustment Factor	Loss Guarantee Amount	P21	64	99999999.99	Round to nearest dollar and cents.	
	Determined Head Count	P21	66	99999999	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
Revenue Conversion Production to Count = Production to Count Quantity * Harvest Price * (1+Harvest Price Adjustment Factor * (650-MAX(200, MIN(750, Production to Count Quantity)))) * Price Election Percent	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		Edit with ADM Price, "00810".
	Harvest Price Adjustment Factor	ADM		9.99999	None	Edit with ADM Price, "00810".
	Price Election Percent	ICE		9.9999	None	Price Election Percent would equal 1.00 when Insurance Plan Code equals "02".

Section 17: Indemnity Calculation

Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	64	S99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	66	S9999999999	Round to whole number.	
	Insured Share Percent	P11	43	9.9999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	67	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.	