

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

Insurance Plan Code		01 Yield Protection					
Commodity Code	0011 Wheat	0021 Cotton			0047 Dry Beans		0078 Sunflowers
	0015 Canola	0041 Corn			0051 Grain Sorghum		0081 Soybeans
	0018 Rice	0043 Popcorn			0067 Dry Peas		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		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	43	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	43	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 Adjustment Factor	P11	72	0.999	None		
	Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount	Acre Stage Guarantee Amount	P21	55	99999999.99	Round to nearest dollar and cents.	Not used in determination of Loss Guarantee Amount
Price Election Amount		P11	46	9999.9999		Common Crop Insurance Policy 'yield protection guarantee (per acre)'.	

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

<b>Insurance Plan Code</b>						
01 Yield Protection						
<b>Commodity Code</b>	0011 Wheat	0021 Cotton	0047 Dry Beans	0078 Sunflowers		
	0015 Canola	0041 Corn	0051 Grain Sorghum	0081 Soybeans		
	0018 Rice	0043 Popcorn	0067 Dry Peas	0091 Barley		
<b>Calculations</b>	<b>Field Name</b>	<b>Record Number</b>	<b>Field Number</b>	<b>Field Format</b>	<b>Field Rounding</b>	<b>Rules</b>
<b>Section 2: Loss Guarantee Calculation</b>						
Loss Guarantee Amount = Guarantee Per Acre2 * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	57	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
<b>Section 3: Indemnity Calculation</b>						
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	46	9999.9999		
Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	56	S99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	59	S9999999999	Round to whole number.	
	Insured Share Percent	P11	44	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	60	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.	
<b>Replant Payment for Yield Protection, "01"</b>						
<b>Section 4: Replant Payment Stage Guarantee Calculation</b>						
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)'.
	Approved Yield	P11	43	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	



Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

<b>Insurance Plan Code</b> 01 Yield Protection						
<b>Commodity Code</b> 0011 Wheat      0021 Cotton      0047 Dry Beans      0078 Sunflowers 0015 Canola      0041 Corn      0051 Grain Sorghum      0081 Soybeans 0018 Rice      0043 Popcorn      0067 Dry Peas      0091 Barley						
<b>Calculations</b>	<b>Field Name</b>	<b>Record Number</b>	<b>Field Number</b>	<b>Field Format</b>	<b>Field Rounding</b>	<b>Rules</b>
<b>Commodity Code equal Dry Beans, "0047:</b>  Lesser of:  Acre Stage Guarantee Amount = (Insured's Actual Cost Or 10% of Guarantee Per Acre2 Or Maximum Replant Guarantee Per Acre) * Price Election Amount	Acre Stage Guarantee Amount	P21	55	99999999.99	Round to nearest dollar and cents.	Not used in determination of Loss Guarantee Amount
	Price Election Amount	P11	46	99999.9999	None	
	Maximum Replant Guarantee Per Acre	ICE				Edit with SPOI ICE "D00129".
	10% of Guarantee Per Acre2	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then 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 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.
<b>Section 5: Replant Payment Loss Guarantee Calculation</b>						
<b>Commodity Code not equal Dry Beans, "0047:</b>  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	57	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
<b>Commodity Code equal Dry Beans, "0047:</b>  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	P21	57	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
<b>Section 6: Replant Payment Indemnity Calculation</b>						
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Indemnity Amount	P21	60	S9999999999	Round to whole number.	
	Insured Share Percent	P11	44	9.999	None	
Total Indemnity Σ Indemnity Amount for the Unit	Total Indemnity	Internal		S9999999999	Round to whole number.	

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

Insurance Plan Code

01 Yield Protection

Commodity Code

0011 Wheat

0015 Canola

0018 Rice

0021 Cotton

0041 Corn

0043 Popcorn

0047 Dry Beans

0051 Grain Sorghum

0067 Dry Peas

0078 Sunflowers

0081 Soybeans

0091 Barley

CalculationsField  
NameRecord  
NumberField  
NumberField  
FormatField  
RoundingRules

Prevented Planting Payment for Yield Protection, "01".

## Section 7: Prevented Planting Payment Stage Guarantee Calculation

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)'.

Approved Yield

P11

43

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.

Approved Yield

P11

43

99999999.99

None

Option Conversion Factor

ADM

9.9999

None

Information (Approved Yield and Insured Share Percent) will be obtained from Cotton P11 record.

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 Adjustment Factor

P11

72

0.999

None

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

<u>Insurance Plan Code</u>		01 Yield Protection					
<u>Commodity Code</u>	0011 Wheat	0021 Cotton		0047 Dry Beans		0078 Sunflowers	
	0015 Canola	0041 Corn		0051 Grain Sorghum		0081 Soybeans	
	0018 Rice	0043 Popcorn		0067 Dry Peas		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>
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount		Acre Stage Guarantee Amount	P21	55	999999999.99	Round to nearest dollar and cents.	Common Crop Insurance Policy 'yield protecton guarantee (per acre)'. Not used in determination of Loss Guarantee Amount.
		Price Election Amount	P11	46	99999.9999	None	
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	57	99999999.99	Round to nearest dollar and cents.	
		Determined Acreage	P21	18	99999999.99	None	
		Liability Adjustment Factor	P21	39	9.999999	None	
Section 9: Prevented Planting Payment Indemnity Calculation							
Preliminary Indemnity Amount = Loss Guarantee Amount * Insured Share Percent		Preliminary Indemnity Amount	P21	59	\$9999999999	Round to whole number.	
		Insured Share Percent	P11	44	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor		Indemnity Amount	P21	60	\$9999999999	Round to whole number.	
		Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity $\Sigma$ Indemnity Amount for the Unit		Total Indemnity	Internal		\$9999999999	Round to whole number.	
Malting Barley Price and Quality Endorsement (Options MA and MB)							
Section 10: Malting Barley Stage Guarantee Calculation							
Guarantee Per Acre1 = Approved Yield * Coverage Level Percent		Guarantee Per Acre1	Internal		999999999.9	Round to 1 decimal.	
		Approved Yield	P11	43	99999999.99	None	Common Crop Insurance Policy
		Coverage Level Percent	P14	34	9.9999	None	
Guarantee Per Acre2 = Guarantee per Acre1 * Guarantee Adjustment Factor		Guarantee Per Acre2	Internal		99999999.99	Round to 1 decimal.	
		Guarantee Adjustment Factor	P11	72	0.999	None	
Acre Stage Guarantee Amount = Guarantee Per Acre2 * Price Election Amount		Acre Stage Guarantee Amount	P21	55	999999999.99	Round to dollar and Cents	Common Crop Insurance Policy 'yield protecton guarantee (per acre)'. Not used in determination of Loss Guarantee.
		Price Election Amount	P11	46	99999.9999	None	

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

<b>Insurance Plan Code</b>						
01 Yield Protection						
<b>Commodity Code</b>	0011 Wheat	0021 Cotton	0047 Dry Beans	0078 Sunflowers		
	0015 Canola	0041 Corn	0051 Grain Sorghum	0081 Soybeans		
	0018 Rice	0043 Popcorn	0067 Dry Peas	0091 Barley		
<b>Calculations</b>	<b>Field Name</b>	<b>Record Number</b>	<b>Field Number</b>	<b>Field Format</b>	<b>Field Rounding</b>	<b>Rules</b>
<b>Section 11: Malting Barley Loss Guarantee Calculation</b>						
Loss Guarantee Amount = Guarantee Per Acre <sup>2</sup> * Price Election Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	57	99999999.99	Round to nearest dollar and cents.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
<b>Section 12: Malting Barley Indemnity Calculation</b>						
Revenue Conversion Production To Count = Production to Count Quantity * Price Election Amount	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	46	99999.9999	None	
Unit Deficiency Quantity = Loss Guarantee Amount – Revenue Conversion Production to Count	Unit Deficiency Quantity	P21	56	\$99999999.99	Round to nearest dollar and cents.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	59	\$9999999999	Round to whole number.	
	Insured Share Percent	P11	44	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	60	\$9999999999	Round to whole number	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Total Indemnity = Σ Indemnity Amount for the Unit	Total Indemnity	Internal		\$9999999999	Round to whole number.	

Exhibit Name: Indemnity Calculations

Exhibit Number: P21-1, Plan 01

Record Name: Acreage Claim

Record Code: P21

Reinsurance Year: 2015

Version: Approved

Release Date: 7/1/2014

<b>Insurance Plan Code</b> 01 Yield Protection						
<b>Commodity Code</b> 0011 Wheat      0021 Cotton      0047 Dry Beans      0078 Sunflowers 0015 Canola      0041 Corn      0051 Grain Sorghum      0081 Soybeans 0018 Rice      0043 Popcorn      0067 Dry Peas      0091 Barley						
<b>Calculations</b>	<b>Field Name</b>	<b>Record Number</b>	<b>Field Number</b>	<b>Field Format</b>	<b>Field Rounding</b>	<b>Rules</b>
Downed Rice Payment, option "DC", for Yield Protection, "01", 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.						
<b>Section 13: Downed Rice Payment Loss Guarantee Calculation</b>						
Insured Acreage10 = Reported Acreage * 10%	Insured Acreage10	Internal		99999999.99	Round to 1 decimal.	
	Reported Acreage	P11	49	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	49	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
Payable Downed Rice Acreage <b>With deductible:</b> round(Determined Acreage - Insured Acreage10,1) * 1.25 = <b>OR</b> <b>Without deductible:</b> 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.
Payable Downed Rice Acreage * Harvest Expense Loss Guarantee Amount = Amount * Price Election Percent * Liability Adjustment Factor	Loss Guarantee Amount	P21	57	99999999.99	Round to nearest dollar and cents.	
	Harvest Expense Amount	ADM		99999	None	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	
<b>Section 14: Downed Rice Payment Indemnity Calculation</b>						
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Indemnity Amount	P21	60	S9999999999	Round to whole number.	
	Insured Share Percent	P11	44	9.999	None	
Total Indemnity ∑ Indemnity Amount for the Unit	Total Indemnity	Internal		S9999999999	Round to whole number.	Only Downed Rice records, no base Rice records.