**Exhibit Name:** Indemnity Calculations

Exhibit Number: P21-8, Plan 55 **Record Name:** Acreage Claim

**Reinsurance Year: 2022** Version: Approved **Release Date: 8/5/2021** 

Record Code: P21 55 Yield Based Dollar Amount of Insurance **Insurance Plan Code** 0080 Hybrid Seed Rice 0050 Hybrid Sorghum Seed 0066 Hybrid Vegetable Seed 0093 Hybrid Sweet Corn Seed **Commodity Code** 0062 Hybrid Seed Corn 0334 Hybrid Popcorn Seed **Field** Record <u>Field</u> **Field Field Calculations Name** <u>Number</u> **Number Format** Rounding **Rules** Section 1: Stage Guarantee Calculation When Commodity is not "0093," Hybrid Sweet Corn Seed, "0334," Hybrid Popcorn Seed, or "0066," Hybrid Vegetable Seed: If Unit of Measure equals pounds, "LBS", then round to whole number. P11 42 99999999.99 Approved Yield Otherwise, round to 1 decimal. Approved Yield = (County Yield \* Yield Price Factor) – Minimum
Payment Quantity County Yield ADM 999.9 None Edit with ADM Base Rate, "A01010". Coverage Level Factor from SPOI. Edit with **Yield Price Factor** ICE 9.9999 None Yield Price Factor ICE, "D00041". Minimum Payment Quantity must be converted to applicable Unit of Measure 999999.9 Minimum Payment Quantity (whole number for pounds, 1 decimal for bushels). Guarantee Per Acre Amount Round to whole number. Internal Guarantee Per Acre = Approved Yield \* Price Election Amount IF "HS" elected, price should reflect the higher value of MPCI or HPSE (A00810 Price Election Amount P11 45 9999.9999 None Hybrid Seed Option Price). When Commodity is "0093," Hybrid Sweet Corn Seed or "0334," Hybrid Popcorn Seed: If Unit of Measure equals pounds, "LBS", then round to whole number. Approved Yield P11 42 99999999.99 Approved Yield = County Yield \* Coverage Level Percent Otherwise, round to 1 decimal. County Yield ADM 999.9 None Edit with ADM Base Rate, "A01010". P14 34 Coverage Level Percent None Guarantee Per Acre Amount Internal Round to whole number. This value will be cupped at zero. If "HS" elected, price should reflect the 9999.9999 higher value of MPCI or HPSE (A00810 Price Election Amount P11 45 None MIN(ROUND(Contract Value \* Coverage Level Hybrid Seed Option Price). Guarantee Per Acre
Amount = Percent,0), ROUND(Approved Yield \* Price Election Amount ,0)) "Total compensation specified in the hybrid sweet corn seed processor contract" or Contract Value P11 78 999999999 "stated seed contract value" in whole dollar amount.

**Exhibit Name:** Indemnity Calculations

Exhibit Number: P21-8, Plan 55
Record Name: Acreage Claim

Reinsurance Year: 2022 Version: Approved Release Date: 8/5/2021

	Record Code: P21				Release Date:					
<u>Insurance Plan Code</u> 55 Yield Based Dollar Amount of Insurance										
	050 Hybrid Sorghum Seed	0066 Hybrid Vegetable Seed			0093 Hybrid Sweet Corn Seed					
Commodity Code 00	062 Hybrid Seed Corn						0334 Hybrid Popcorn Seed			
	alculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
Acre Stage Guarantee _ Gu	Guarantee Per Acre Amount * GuaranteeAdjustment Factor	Acre Stage Guarantee Amount	P21	58	99999999.99	Round to whole number.				
Amount Fa		Guarantee Adjustment Factor	P11	69	0.999	None				
Vhen Commodity is "0066", Hybrid Vegetable Seed:										
		Approved Yield	P11	42	99999999.99	If Unit of Measure equals pounds, "LBS", then round to whole number.  Otherwise, round to 1				
						decimal.				
Approved Yield = Co	= County Yield * Coverage Level Percent	County Yield	ADM		999.9	None	Edit with ADM Base Rate, "A01010".			
		Coverage Level Percent	P14	34		None				
	ROUND(Approved Yield * Price Election Amount - Minimum Payment Quantity,0)	Guarantee Per Acre Amount	Internal			Round to whole number.	This value will be cupped at zero.			
Guarantee Per Acre $= \frac{RC}{Amount} = \frac{RC}{M}$		Price Election Amount	P11	45	9999.9999	None				
		Minimum Payment Quantity	P11	79	999999.9		Minimum Payment Quantity must be in dollars (whole numbers).			
Acre Stage Guarantee = Gu Amount = Fa	uarantee Per Acre Amount * GuaranteeAdjustment actor	Acre Stage Guarantee Amount	P21	58	99999999.99	Round to whole number.				
		Guarantee Adjustment Factor	P11	69	0.999	None				
Section 2: Loss Guarantee Cal	culation		1							
Loss Guarantee Amount = Ac	= Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	64	99999999.99	Round to whole number.				
*		Determined Acreage	P21	18	99999999.99	None				
		Liability Adjustment Factor	P21	39	9.999999	None				
Section 3: Indemnity Calculati										
When Commodity is <u>NOT</u> "009	93," Hybrid Sweet Corn Seed or "0334," Hybrid Popco	orn Seed:	1							
Unit Deticiency Quantity =	Loss Guarantee Amount – Production to Count Quantity	Unit Deficiency Quantity	P21	63	S99999999.99	Round to whole number.				
Qı		Production to Count Quantity	P21	34	99999999.99	None				
Preliminary Indemnity Amount = Ui	nit Deficiency Quantity * Insured Share Percent	Preliminary Indemnity Amount	P21	66	S9999999999	Round to whole number.				
Amount		Insured Share Percent	P11	43	9.9999	None				
	Adjustment Factor	Indemnity Amount	P21	67	S9999999999	Round to whole number.				
ingemnity Amount =		Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Not applicable for Hybrid Seed Rice.			
When Commodity is "0093," H	lybrid Sweet Corn Seed or "0334," Hybrid Popcorn Se	eed:								
	Loss Guarantee Amount – Production to Count Quantity	Unit Deficiency Quantity	P21	63		Round to whole number.				
Unit Deficiency Quantity =		Loss Guarantee Amount	P21	64	99999999.99	Round to whole number.				
		Production to Count Quankitye 2	of 3 P21	34	99999999.99	None				

**Exhibit Name:** Indemnity Calculations

Exhibit Number: P21-8, Plan 55
Record Name: Acreage Claim
Record Code: P21

Reinsurance Year: 2022 Version: Approved Release Date: 8/5/2021

Insurance Plan Code		55 Yield Based Dollar Amount of Insurance						
Commodity Code	0050 Hybrid Sorghum Seed	0066 Hybrid Vegetable Seed			0080 Hybrid See	ed Rice	0093 Hybrid Sweet Corn Seed	
	0062 Hybrid Seed Corn						0334 Hybrid Popcorn Seed	
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>	
Preliminary Indemnity Amount	= Unit Deficiency Quantity	Preliminary Indemnity Amount	P21	66	S9999999999	Round to whole number.		
Indemnity Amount CAP	Loss Guarantee Amount - Minimum Payment Quantity * Determined Acreage	Indemnity Amount CAP	Internal		S9999999999	Round to whole number.		
		Minimum Payment Quantity	P11	79	999999.9		Minimum Payment Quantity must be in dollars (whole numbers).	
Indemnity Amount	MIN(Indemnity Amount CAP, Preliminary Indemnity = Amount) * Multiple Commodity Adjustment Factor * Insured Share Percent	Indemnity Amount	P21	67	\$9999999999	Round to whole number.		
		Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Not applicable for Hybrid Seed Rice.	
		Insured Share Percent	P11	43	9.9999	None		