Exhibit Number: P11-1, Plan 01, 02, 03

		Record Name: Acreage Record Code: P11	-						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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			
		Field	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>			
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
Section 1: Liability Calcula	ation								
		Premium Guarantee Per Acre Amount	Internal		9999999999999	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimal.			
Premium Guarantee Per Acre Amount		Approved Yield	P11	42	99999999.99	None	For APH Trend Quality Loss, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
		Coverage Level Percent	P14	34	9.9999	None	For APH Trend, Quality Loss, and Yield Exclusion the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.		

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage
Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code	01 Yield Protection	02 R	Revenue Protection	tection 03 Revenue Protection with Harvest Price Exclusio				n with Harvest Price Exclusion
	0011 Wheat	002:	1 Cotton			0047 Dry Beans		0075 Peanuts
Commodity Code	0015 Canola	004:	1 Corn			0051 Grain Sorghum		0078 Sunflowers
	0016 Oats	0043	3 Popcorn			0067 Dry Peas		0081 Soybeans
	0018 Rice							0091 Barley
			Field	Record	Field	Field	Field	

	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	<u>Rounding</u>	<u>Rules</u>
When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor Guarantee Per Acre Amount = Amount	Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.	Guarantee Per Acre Amount 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	Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Preventing Planting.
Price Election Amount = Projected Price (or Contract Price) * Price Election Percei	ot Price Election Amount	Internal		9999.9999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, Oats "0016", "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. If result is based on Contract Price round to nearest one hundredth cent (\$9.9999).	

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage Record Code: P11 Reinsurance Year: 2023

Version: Draft

Release Date: 1/5/2023

<u>Insurance Plan Code</u> 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

Commodity Code0011 Wheat0021 Cotton0047 Dry Beans0075 PeanutsCommodity Code0015 Canola0041 Corn0051 Grain Sorghum0078 Sunflowers0016 Oats0043 Popcorn0067 Dry Peas0081 Soybeans

0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Number Number Rounding Rules Name **Format** When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one tenth cent [\$9.999]. If result is based on Contract Price round to nearest one Price Election Amount hundredth cent 9999.9999 Internal (\$9.9999). (continued) When Commodity Price Election Amount
Price Election Percent (or Contract Price) * Price Election Percent Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas,"0067" round to nearest onehundredth cent [\$9.9999]. Liability for Yield Protection, "01" allows the producer the opportunity to choose a percentage of the Projected Price. Liability for Revenue Protection, "02", or Revenue Projected Price 99999.9999 ADM Protection with Harvest Price Exclusion, "03", requires the producer to choose 100 percent of the Projected Price. Edit with ADM Price, "00810".

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Reinsurance Year: 2023

Version: Draft

	Record Name: Acreage Record Code: P11				Version: Draft Release Date: 1/5/2023						
Insurance Plan Code	01 Yield Protection	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					
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>					
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>				
Price Election Amount (continued)		t Contract Price	P11	46	9999.9999	None	For Yield Protection, "01", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry Peas, specialty types of Canola, Corn, Soybean or Barley. For Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", Contract Price may be used in lieu of the Projected Price for Dry Beans, Dry Peas, or specialty types of Canola, Corn or Soybeans. If the insured chooses to use the contract price, the contract price per bushel should be entered in the contract price field. The contracted price will be capped by RMA at a certain percentage over the projected price for Canola, Corn, Soybean and Barley as specified in the Special Provisions.				
		Price Election Percent	ICE		9.9999	None	Price Election Percent must equal 1.000, whe Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Pri Exclusion, "03". Edit with ICE Price Election Percent, "D00007".				
Dromium Tota	L. Dromium Cuarantoe Per Aero Amount * Price Election	Premium Total Guarantee Amount	Internal		9999999.99	Round to 2 decimals.					
Guarantee Amount	Premium Total = Premium Guarantee Per Acre Amount * Price Election Guarantee Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None					
Gaarantee Amount	, and and reported hereuge	Reported Acreage	P11	48	9999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.				
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	103	99999999.99	Round to 2 decimals.					
Total Guarantee Amount	t = Reported Acreage	Price Election Amount	Internal		9999.9999	None					
	,	Reported Acreage	P11	48	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.				

	Exhibit Name: Exhibit Number: Record Name: Record Code:		Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	ion 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
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Premium Liability Amount	Premium Total Guarantee Amount * Insured Share	Premium Liability Amount	Internal		999999999	Round to whole number.	
Amount	reicent	Insured Share Percent	P11	43	9.9999	None Round to whole	
Liability Amount =	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	94	999999999	number.	
2.00, 7		Insured Share Percent	P11	43	9.9999	None	
Section 2: Unit Discount Ca	lculation						The appropriate discount factor should be looked up and applied.
When commodities are set	up in the unit discount table for lookups based solely on ac	res.					
=	When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU":	Revenue Lookup Adjustment Factor	Internal		9.9999999	None	
Revenue Lookup	Unit Structure Discount Factor						
Adjustment Factor	When the Unit Structure Code is Whole Farm Unit "WU":	Unit Structure Discount	Internal		9.9999999	None	Capped at 1.0 From below for Unit Structures "OU, UA, UD,
	Unit Structure Discount Factor for Enterprise Unit"EU"	Factor					BU, EU".

Exhibit Number: P11-1, Plan 01, 02, 03

	Record Name: Acreage Record Code: P11			Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue				otection with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice Calculations	0021 Cotton 0041 Corn 0043 Popcorn Field Name	Record Number		0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas Field Format	<u>Field</u> Rounding	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley Rules		
-	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.99999999	None	capped at 1.0		
	Optional Unit Discount Factor	Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".		
=	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".		
Unit Structure Discount Factor	When the Unit Structure Code is Enterprise Unit, "EU": Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This include both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090". Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage.		

Exhibit Number: P11-1. Plan 01. 02. 03

	Record Name	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year Version Release Date		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice Calculations	0021 Cotton 0041 Corn 0043 Popcorn Field Name	Record Number		0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas <u>Field</u> <u>Format</u>	<u>Field</u> Rounding	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley Rules
nen commodities are set	up in the unit discount table for lookups based on acres <u>a</u>	nd coverage levels.					
-	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Revenue Lookup Adjustment Factor	Internal		9.9999999	None	
	Unit Structure Discount Factor	Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 From below for Unit Structure "OU", "UA", on "UD".
Revenue Lookup Adjustment Factor	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor for 65% Coverage Level	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quantity and less than or equal to Area Hig Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.
=	When the Unit Structure Code is Enterprise Unit, "EU" or Whole Farm Unit "WU": Enterprise Unit Discount Factor for 65% Coverage Level	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Enterprise Unit Discount Factor is continger upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.

Exhibit Number: P11-1. Plan 01. 02. 03

Reinsurance Year: 2023

Exclusion), and "QL" (Quality Loss Option).

	Record Name	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Ye Versio Release Da			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	ection 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	
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss).	
-	Optional Unit Discount Factor	Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), "QL" (Quality Loss).	
Unit Structure Discount Factor	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" by Coverage Level. Basic Unit Discount Factor is contingent upo the sum of the reported acres which were n prevented from planting for the unit being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield	

		Record Name:	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Yea Versio Release Dat		
Insurance Plan Code	01 Yield Protection		02 Revenue Protection			ction 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
	<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> Rounding	<u>Rules</u>
Unit Structure Discount Factor (contintued)		•	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" by Coverage Level. Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage.

See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield

Exclusion), and "QL" (Quality Loss).

Exhibit Name: Premium Calculation **Reinsurance Year: 2023** Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field Field **Field Calculations** Name Number Number **Format** Rounding Rules If Written Agreement is applicable make the **Section 3: Base Premium Rate Calculation** necessary changes as provided by the agreement and ROE ADM. Current Year Yield Ratio 9.9999 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. Internal For skip row commodities, the rate yield is the Current Year Yield Ratio = Rate Yield / Reference Amount Rate Yield P15 35 99999999.99 None converted rate yield from the P15 record with skip row (yield conversion factor) applied. Reference Yield ADM 99999.99 None Edit with ADM Base Rate, "A01010". When previous year yield limitation code = '03', Insurance Option Code List contains Yield Cup (YC), and Commodity Code Dry Beans "0047" and Type Code equals Contract "62", or Commodity Code equals Dry Peas "0067" and Type Code equals Spring Contract "98": Prior Year Yield Ratio Internal 9999999.99 Round to 2 decimals. Approved Yield P11 42 99999999.99 None Prior Year Yield Ratio = Round(Approved Yield * Contract Price,0) / Prior Year Reference Amount 46 9999.9999 Contract Price P11 None Prior year Reference Amount ADM 99999.99 None Edit with ADM Base Rate, "A01010". When previous year yield limitation code = '03' and Insurance Option Code List contains Yield Cup (YC) and the aforementioned commodities/types are not applicable: Round to 2 decimals. Prior Year Yield Ration Internal 9.9999 Cup at 0.50 and Cap at 1.50. For skip row commodities, the rate yield is the Prior Year Yield Ratio = Approved Yield / Prior Year Reference Amount Approved Yield P11 42 99999999.99 None converted rate yield from the P15 record with skip row (yield conversion factor) applied. Prior Year Reference Amount ADM 99999.99 None Edit with ADM Base Rate, "A01010".

Current Year Rate Multiplier * Reference Rate + Fixed rate

Reinsurance Year: 2023 Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers **Commodity Code** 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field Field **Field Calculations** Name Number Number **Format** Rounding **Rules** Otherwise: Prior Year Yield Ratio Internal 9.9999 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. For skip row commodities, the rate yield is the Rate Yield P15 35 99999999.99 None converted rate yield from the P15 record with Prior Year Yield Ratio = Rate Yield / Prior Year Reference Amount skip row (yield conversion factor) applied. ADM Prior Year Reference Amount 99999.99 None Edit with ADM Base Rate, "A01010". Current Year Rate = Current Year Yield Ratio ^ Exponent Value Current Year Rate Multiplier 9999.9999999 Round to 8 decimals. Internal ADM Edit with ADM Base Rate, "A01010". **Exponent Value** S99.999 None Prior Year Rate Multiplier 9999.9999999 Round to 8 decimals. Internal Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value Prior Year Exponent Value ADM S99.999 Edit with ADM Base Rate, "A01010". None 9999999999.9999999 Round to 8 decimals. Current Year Base Rate Internal When Rate Method Code is Fixed, "F": Sub County Rate Sub County Rate ADM 99.9999 None Edit with ADM Sub County Rate, "A01050". When Rate Method Code is Additive, "A": 9999.9999999 Current Year Rate Multiplier Internal None Sub County Rate + (Current Year Rate Multiplier * Current Year Base Rate Reference Rate + Fixed Rate) When Rate Method Code is Multiplicative, "M": ADM 9.9999 Reference Rate None Edit with ADM Base Rate, "A01010". Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate) Otherwise: Fixed Rate ADM 9.9999 None Edit with ADM Base Rate, "A01010".

Exhibit Number: P11-1, Plan 01, 02, 03

	Record Name: Record Code:	•	Version: Draft Release Date: 1/5/2023						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on 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		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules		
=	When Rate Method Code is Fixed, "F": Sub County Rate	Prior Year Base Rate Sub County Rate	Internal ADM		999999999999999999999999999999999999999	Round to 8 decimals. None	Edit with ADM Sub County Rate, "A01050".		
= Prior Year Base Rate = =	When Rate Method Code is Additive, "A": Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal		9999.99999999	None			
	When Rate Method Code is Multiplicative, "M": Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
	Otherwise: Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed rate	Prior Year Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rid 0001 Barla

	0018 Rice 0091 Barley								
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>			
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
		Current Year Base Premium Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	If Option Code "QL", "YE" or "TA" is applicable and the effective coverage level exceeds the highest coverage level for the offer in the ADM, see Section 23 for the Current Year Base Premium Rate calculation.		
=	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) Current Year Base Premium Rate	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss).		
Current Year Base Premium Rate		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.		
=	When Unit Structure code is Enterprise Unit, "EU": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss) where Unit Structure Code equal to Enterprise Unit, 'EU'.		
=	When Unit Structure code is Whole Farm Unit, "WU": Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss) where Unit Structure Code equal to Whole Farm Unit, 'WU'.		

02 Revenue Protection

Residual Factor

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

0047 Dry Beans

Record Code: P11

03 Revenue Protection with Harvest Price Exclusion

0075 Peanuts

"A01040."

Commodity Code 0011 Wheat 0015 Canola

01 Yield Protection

Factor, 8)

Insurance Plan Code

 0011 Wheat
 0021 Cotton

 0015 Canola
 0041 Corn

 0016 Oats
 0043 Popcorn

Differential Factor * Prior Year Whole Farm Unit Residual

0051 Grain Sorghum0078 Sunflowers0067 Dry Peas0081 Soybeans

0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Number Rounding Name Number **Format** Rules When previous year yield limitation code = '03' and Insurance Option Code List contains Yield Cup (YC): Prior Year Base Premium When Unit Structure Code is equal to Optional Unit, Internal 9999999999999999 Round to 8 decimals. Rate "OU", "UA", "UD", or Basic Unit, "BU": Prior Year Rate Differential Edit with ADM Coverage Level Differential, 9.99999999 ADM None Factor "A01040." Edit with ADM Coverage Level Differential, Round(Prior Year Base Rate * 1.05 * Prior Year Rate Prior Year Unit Residual ADM 999.999 None 'A01040." Differential Factor * Prior Year Unit Residual Factor, 8) Factor When Unit Structure code is Enterprise Unit, "EU": Prior Year Base Premium Prior Year Enterprise Unit Edit with ADM Coverage Level Differential, Rate Round(Prior Year Base Rate * 1.05* Prior Year Rate ADM 9.999 None "A01040". **Residual Factor** Differential Factor * Prior Year Enterprise Unit Residual Factor, 8) When Unit Structure code is Whole Farm Unit, 'WU': Prior Year Whole Farm Unit Edit with ADM Coverage Level Differential, Round(Prior Year Base Rate * 1.05 * Prior Year Rate ADM 9.999 None

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts 0078 Sunflowers **Commodity Code**

0015 Canola 0041 Corn 0051 Grain Sorghum 0016 Oats 0043 Popcorn 0067 Dry Peas

0081 Soybeans 0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Name Number Number **Format** Rounding **Rules** Otherwise: When Unit Structure Code is equal to Optional Unit, Prior Year Base Premium Internal 9999999999999999 Round to 8 decimals. "OU", "UA", "UD", or Basic Unit, "BU": Rate Edit with ADM Coverage Level Differential, "A01040". Round(Prior Year Base Rate * Prior Year Rate Differential Prior Year Rate Differential ADM 9.99999999 None See Section 17 for Option code "TA" (Trend Factor * Prior Year Unit Residual Factor, 8) Factor Adjustment), "YC" (Yield Cup), "YE" (Yield Exclusion), and "QL" (Quality Loss). Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Prior Year Unit Residual ADM 999.999 Adjustment), "YC" (Yield Cup), "YE" (Yield None Factor Exclusion), "QL" (Quality Loss) where Unit Structure Code equal to Optional Unit, "OU", Prior Year Base Premium "UA", "UD", or Basic Unit, "BU". Rate Edit with ADM Coverage Level Differential, When Unit Structure code is Enterprise Unit, "EU": "A01040". Prior Year Enterprise Unit See Section 18 for Option Code "TA" (Trend ADM 9.999 None Round(Prior Year Base Rate * Prior Year Rate Differential Residual Factor Adjustment), "YC" (Yield Cup), "YE" (Yield Factor * Prior Year Enterprise Unit Residual Factor, 8) Exclusion), and "QL" (Quality Loss) where Unit Structure Code equal to Enterprise Unit, 'EU'. Edit with ADM Coverage Level Differential, "A01040". When Unit Structure code is Whole Farm Unit, 'WU': See Section 18 for Option Code "TA" (Trend Prior Year Whole Farm Unit None Adjustment), "YC" (Yield Cup), "YE" (Yield ADM 9.999 Round(Prior Year Base Rate * Prior Year Rate Differential Residual Factor Exclusion), and "QL" (Quality Loss) where Unit Factor * Prior Year Whole Farm Unit Residual Factor, 8) Structure Code equal to Whole Farm Unit, 'WU'. MIN (Current Year Base Premium Rate, Prior Year Base Base Premium Rate = Base Premium Rate P11 97 9999999999.9999999 Round to 8 decimals. Premium Rate * 1.2, .999) MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, Revenue Lookup Rate Revenue Lookup Rate 999999999.9999 Internal Round to 4 decimals.

Exhibit Number: P11-1, Plan 01, 02, 03

		Name: Acreage d Code: P11			Version Release Date		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	Calculations	<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
Section 4: Optional Covera	ge (Additive "A" and Multiplicative "M")						If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9.
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Pate	When Rate Method Code is Additive, "A":	Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rawith Rate Method Code equal to Additive, "Edit with ADM Option Rate, "A01060".
Additive Optional Rate Adjustment Factor	= ∑ Option Rate * Rate Differential Factor						Edit with ADM Coverage Level Differential, "A01040".
		Rate Differential Factor	ADM		9.9999999	None	See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Multiplicative Optional	When Rate Method Code is Multiplicative, "M":	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

Insurance Plan Code	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11 Insurance Plan Code 01 Yield Protection 02 Revenue Protection			Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023 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	
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
Section 5: Revenue Covera	age Add on Rates (Applicable only for Plans 02 and 03)						It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.	
Lookup Rate	Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Lookup Rate Revenue Lookup Rate	Internal Internal		999999999999999	Round to 4 decimals. Round to 4 decimals.	From Section 3.	
		Revenue Lookup Adjustment Factor	Internal		9.9999999	None	From Section 2.	

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage
Record Code: P11

Reinsurance Year: 2023

Version: Draft
Release Date: 1/5/2023

Lookup Rate.

	Reco	rd Code: P11			Release Date:	Release Date: 1/5/2023		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on 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	
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>		
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules	
		Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.		
Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100		Approved Yield (AY)	P11	42	99999999.99	None	For APH Trend, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.	
		Mean Quantity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate.	
		Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		999999999999999999999999999999999999999	Round to 8 decimals.		
Adjusted Standard = Approved Yield * Standard Deviation Quantity Deviation Quantity	= Approved Yield * Standard Deviation Quantity / 100	Approved Yield (AY)	P11	42	99999999999	None	For APH Trend, Quality Loss, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row cotton, the approved yield is the converted approved yield from the P15 record	
	Standard Deviation Quantity	ADM		999.99999999	None	with skip row (yield conversion factor) applied. Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using		

Exhibit Number: P11-1, Plan 01, 02, 03

		Record Name: Acreage Record Code: P11			Versio Release Dat	n: Draft e: 1/5/2023		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn <u>Field</u>	0041 Corn 0043 Popcorn			<u>Field</u>	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley	
	<u>Calculations</u>	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>	
		log Mean Quantity (LnMean)	Internal		999999.99999999	Round to 8 decimals.		
	Ln(Projected Price or Contract Price) –	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".	
LnMean	(Price Volatility Factor) ² /2	Contract Price	P11	46	9999.9999	None	Contract price as addressed in Section 1, capped with Max Contract Price from ADM.	
		Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".	
Yield Draw Quantity _{Sequence Numbe}	For Sequence Number 1 to 500 = Yeld Draw Quantity	Yield Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offe ADM, "A00030".	
Price Draw Quanity _{Sequence} _{Numbe}		Price Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offe ADM	

	Record	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11		Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0041 Corn		0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules	
		Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		999999999999999999	Round to 12 decimals.		
Simulated Yield Protection Losses Quantity	500 ∑ Round(MAX(0, AY * covlvl - Round(MAX(0, Yieldi * i=1 AdjStndDev + AdjMean),12)), 12)	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.	
		Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Exclusion).	
		Yield Draw Quantity _i (Yield _i)	ADM		\$99.99999999	None		

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

99999.9999

None

Edit with ADM Price, "A00810". Contract Price

as addressed in Section 1.

	Record Name: Acreage Record Code: P11			Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley			
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
		Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.			
Simulated Revenue	500 \[\sum_{\text{Round}} \text{Round}(\text{MAX}(0, \text{AY * covlvl * Round}(\text{MAX}(\text{ProjPrice}, \\ \text{i=1} \text{Round}(\text{MIN}(2 * \text{ProjPrice}, \text{Round}(\text{e}^{\text{(Price}} \end{array}^{\text{* Price Volatility}} \\ \text{Factor + LnMean} \\ \text{1.2} \\ \text{1.2} \\ \text{1.2} \\ \text{Factor + LnMean} \\ \text{1.2} \\	Approved Yield (AY)	P11	42	99999999.99	None	For APH Trend, Quality Loss, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
Protection Losses Quantity	Factor + LnMean), 12)), 12)), 12) -	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).		
		Yield Draw Quantity _i (Yield _i)	ADM		S99.999999999	None			

Projected Priced or Contract

Price (ProjPrice)

ADM

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage Record Code: P11 Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

99999.9999

None

Edit with ADM Price, "A00810". Contract Price

as addressed in Section 1.

Insurance Plan Code 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0021 Cotton 0075 Peanuts 0011 Wheat **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley Field Record Field Field **Field Calculations Rounding** Name Number Number **Format** Rules Simulated Revenue

Protection with Harvest Price Round to 12 9999999999999999999 Internal **Exclusion Losses Quantity** decimals. (SimRPhpeLosses) For APH Trend, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. \sum Round (MAX(0, AY * covlvl * ProjPrice - (Round (MAX(0, Approved Yield (AY))) Simulated Revenue P11 42 99999999.99 None Protection with Harvest = Yield; * For skip row commodities, the approved yield Price Exclusion Losses is the converted approved yield from the P15 AdjStdDev + AdjMean),12) * Round(MIN(2 * Quantity ProjPrice, record with skip row (yield conversion factor) Round(e^{(price} i * Price Volatility Factor + LnMean)</sup>, 12)),12))),12) applied. For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss) and "YE" Coverage Level Percent (Yield Exclusion) this will be Effective Coverage P14 34 9.9999 None (covlvl) Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).

ADM

Projected Priced or Contract

Price (ProjPrice)

Exhibit Number: P11-1, Plan 01, 02, 03

	Record Code:	Version: Draft Release Date: 1/5/2023						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	ion with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton0047 Dry Beans0041 Corn0051 Grain Sorghu0043 Popcorn0067 Dry Peas			0051 Grain Sorghum	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules	
Simulated Yield Protection Base Premium Rate	= (Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.	
Protection Base Premium	(Simulated Revenue Protection Losses / 500) / (Approved = Yield * Coverage Level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.	
Protection with Harvest	(Simulated Revenue Protection with harvest Price Exclusion Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.	
Protection Premium Add	MAX(Simulated Revenue Protection Base Premium Rate - = Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.	
Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	MAX(Simulated Revenue Protection with Harvest Price = Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium Rate)	Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection with Harvest Price Exclusion will not be less than half of the Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.	

Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11					Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n 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			
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
	nue Capping (Applicable only for Plans 02 ction will not apply if record has a Writte					Level Base Premium Ra applicable. Then it is used and Revenue Add On Form This table is set up such year is the Commodity the premium calculation exponential capping of there is NOT a correst ADM, "A01110", then Fourthermore, since concept Revenue Assurance (Raperformed for those content this will be based next statement.	Alation the 2010 Revenue Assurance Optional Unit ate for coverage level percents 65 thru 85 where used in conjunction with the Base Premium Rate Rates to compute capped Revenue Add On Rates. In that the only value that will change from year to Year. By doing this we are fixing a point where on method was changed and applying an over time. Sponding row in the Historical Revenue Capping this calculation does not need to be performed. Everage level percents 50, 55, 60 did not exist for A) historically capping does not need to be overage level percents as well. If TA is applicable on the TA Effective Coverage Level Percent. See			
		Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.			
Capping Yield Ratio	= Rate Yield / Capping Reference Yield	Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied.			
		Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".			

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage
Record Code: P11

Reinsurance Year: 2023

Version: Draft
Release Date: 1/5/2023

	Record Code:	-			Release Date	: 1/5/2023	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n 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
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Prior Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Prior Capping Yield Ratio :	= Rate Yield / Prior Capping Reference Yield	Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied.
		Prior Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
		Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Capping Rate Multiplier :	= Capping Yield Ratio ^Capping Exponent Value	Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Rate	= Prior Capping Yield Ratio ^Prior Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Multiplier		Prior Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
	If Rate Method Code = Fixed, "F": Sub County Rate	Historical Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	If Rate Method Code = Additive, "A": Sub County Rate + (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050".
Historical Capping Base Rate	If Rate Method Code = Multiplicative, "M": Sub County Rate * (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise: (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

<u>Insurance Plan Code</u> 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0016 Oats
 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0091 Barley

	0018 Rice		0091 Barley				
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	If Rate Method Code = Fixed "F": Sub County Rate	Historical Prior Capping Base Rate	Internal	<u>itamiza</u>		Round to 8 decimals.	<u></u>
	If Rate Method Code = Additive, "A": Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050".
Historical Prior Capping = Base Rate	If Rate Method Code = Multiplicative, "M": Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise: (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	.9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate)	Historical Basic Unit Base Rate	Internal		999999.99999999	Round to 8 decimals.	

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Record Name: Acreage Version: Draft

	Record Code:	G			Release Date	ease Date: 1/5/2023		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0041 Corn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).	
	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor^2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent +	Historical Revenue Protection Base Premium Rate	Internal		999999999999999999999999999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.		
Historical Revenue		Beta O Factor - Beta 14 Factor	ADM		S99.99999999	None	Edit with ADM Historical Revenue Capping, "A01110".	
Protection Base Premium	Beta 10 Factor * Historical Basic Unit Base Rate * Approved	Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".	
Rate	Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1		ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).	
	When Unit Structure Code is equal to Enterprise Unit, "EU": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality	

Loss), and "YE" (Yield Exclusion).

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Reinsurance Year: 2023

Version: Draft

	Record Code:	J			Release Date	: 1/5/2023	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	<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> Rounding	Rules
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor^2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999999999999999999999999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
Fremium Nate	Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor +	Beta O Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
	Beta 13 Factor * Coverage Level Percent * Price Volatility Factor	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
	When Unit Structure Code is equal to Enterprise Unit, "EU": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).

Exhibit Number: P11-1, Plan 01, 02, 03

	Record Name: Record Code:	_			Version: Release Date:				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion						
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0041 Corn 0051 Gr			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
Capped Revenue _ Protection Add on Rate	MIN(Base Premium Rate + Preliminary Revenue Protection Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping	Capped Revenue Protection Add on Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue add on factors.		
	Year)) - Base Premium Rate	Base Premium Rate	P11	97	999999.9999999	None			
		Commodity Year	P14	10	CCYY	None			
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".		
Price Exclusion Add on	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue add on factors.		
Rate	Year)) - Base Premium Rate	Base Premium Rate	P11	97	999999.9999999	None			
		Commodity Year	P14	10	CCYY	None			
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".		

Exhibit Name: Premium Calculation **Reinsurance Year: 2023** Exhibit Number: P11-1, Plan 01, 02, 03 Version: Draft Record Name: Acreage Record Code: P11 Release Date: 1/5/2023 **Insurance Plan Code** 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection 02 Revenue Protection 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field **Field Field Calculations** Name Number Number **Format** Rounding Rules The Whole Farm Unit Discount is only applicable to the Revenue Protection and Revenue **Protection with Harvest Price Exclusion Insurance** Plans, unless the Special Provisions allow Whole Farm Units for other Insurance Plans. Section 7: Whole Farm Unit Base Premium Rate Whole Farm Units will now mandate that producers include both their spring and fall planted commodities into the whole farm unit for commodity/plans offering Whole Farm Units. Malting Barley Coverage is NOT applicable for Whole Farm Unit. Lookup Rate Internal 999999999.9999 Round to 4 decimals. Revenue Lookup Rate * Revenue Lookup Adjustment Lookup Rate = Revenue Lookup Rate Internal 999999999.9999 Round to 4 decimals. From Section 3. Revenue Lookup Adjustment 9.9999999 None Internal From Section 2. Factor Edit with ADM Combo Revenue Factor, "A01030". Mean Quantity commodityj 999.99999999 ADM None Search the Combo Revenue Factor, "A01030" Mean Quantity $_{commodityj}$ = $\frac{Mean Quantity _{commodityj} WHERE Lookup Rate _{commodityj}}{Base Rate _{commodityj}}$ for the Mean Quantity, When the Lookup Rate

Internal

ADM

9.9999

9.9999

None

None

Lookup Rate commodityj

Base Rate commodityj

= Base Rate

'A01030".

Edit with ADM Combo Revenue Factor,

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection 03 Revenue Protection 05 Revenue Protection 05 Revenue Protection 06 Revenue Protection 07 Revenue Protection 07 Revenue Protection 08 Revenue Protection 09 R

Commodity Code0011 Wheat0021 Cotton0047 Dry Beans0075 PeanutsCommodity Code0015 Canola0041 Corn0051 Grain Sorghum0078 Sunflowers0016 Oats0043 Popcorn0067 Dry Peas0081 Soybeans

0010 Oats	0043 r opcom			0007 Dry reas		0001 30 ybeans	
0018 Rice						0091 Barley	
<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
Standard Deviation = Standard Deviation Quantity commodity WHERE Lookup Quantity commodity Rate commodity = Base Rate commodity	Standard Deviation Quantity commodityj	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate	
	Lookup Rate commodityj	Internal		9.9999	None		
	Base Rate _{commodityj}	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".	
	Adjusted Mean Quantity	Internal		999999.99999999	Round to 8 decimals.		
Adjusted Mean Quantity = Approved Yield commodity * Mean Quantity commodity / 100	Approved Yield _{commodityj}	P11	42	9999999.99	None	For APH Trend, Yield Cup, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.	

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Reinsurance Year: 2023 Version: Draft

	Record Name Record Code	_				ion: Draft rate: 1/5/2023		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				on 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		
	<u>Calculations</u>	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
		Adjusted Standard Deviation Quantity commodityj	Internal		999999999999999999999999999999999999999	Round to 8 decimals.		
Adjusted Standard Deviation Quantity commodityj	= Approved Yield _{commodityj} * Standard Deviation Quantity _{commodityj} / 100	Approved Yield _{commodityj}	P11	42	9999999.99	None	For APH Trend, Yield Cup, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.	
LnMean _{commodityj} =	In(Projected Price or Contract Price _{commodityj}) – (Price Volatility Factor _{commodityj}) ² / 2	log Mean _{commodityj} (LnMean)	Internal		999999.9999999	Round to 8 decimals.		
		Projected Price or Contract Price _{commodityj}	ADM		99999.9999		Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.	
		Price Volatility Factor _{commodityj}	ADM		9.99	None	Edit with ADM Price, "A00810".	
Yield Draw Quantity commodityj Sequence Number	= Yield Draw Quantity _{commodity}	Yield Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".	
Price Draw Quantity commodityj Sequence Number	= Price Draw Quantity _{commodity}	Price Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".	

Exhibit Name: Premium Calculation **Exhibit Number:** P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

		Record Name: Acreage Record Code: P11			Version: Draft Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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	Field	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.		
		Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Qualit Loss), and "YE" (Yield Exclusion).		
Acres of Round ProjPr Simulated Revenue Protection Losses Whole = all Core Farm Farm AdjSto Round Round	\sum Round(MAX(0, \sum Ay _{commodityj} *	Approved Yield _{commodityj} (AY)	P11	42	9999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, Quality Loss, Yield Cup, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
	= all Commodities ∑ Round(MAX(0,Round(Yield _{commodityji})* j= AdjStdDev _{commodityj} + AdjMean _{commodityj} ,12)),12) * Round(MIN(2 * ProjPrice _{commodiyj} , Round(e ^{(Pricecommodityji)*} Price Volatility Factorcommodityj + LnMeancommodityj),12)),12) * Round(Acres _{commodityj} ,12)),	Reported Acreage _{commodityj} (Acres)	P11	48	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit.		
		Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price for each Commodity/Acreage report line in the Whole Farn Unit.		
		Price Draw Quanity _{commodityj} i (Price)	ADM		S99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.		

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	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			
	<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> Rounding	Rules		
		Price Volatility Factor _{commodityj}	Internal		999999.99999999	None	Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit.		
		log Mean _{commodityj} (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.		
		Yield Draw Quantity _{commodityj} i (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
LIDIECTION FOSSES MINOR	all Commodities ∑ Round(MAX(0,∑ Ay _{commodityj} * i=1	Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		9999999999999999999999999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
	12)	Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		

Exhibit Name: Premium Calculation **Reinsurance Year: 2023** Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley Field Record Field Field Field **Calculations** Name Number Number **Format** Rounding Rules Simulated Revenue Protection Simulated Revenue Protection Harvest Price Harvest Price Excluded Losses Internal 9999999999999999999 Round to 12 decimals. Excluded Losses for All Commodity/Acreage report Whole Farm lines in the Whole Farm Unit. (SimRPhpeLossesWF) For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Coverage Level Percent_{commodityj} Exclusion) this will be Effective Coverage Level P14 34 9.9999 None (covlvl) Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion). Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, Yield Cup, Quality Loss, Yield Cup, ∑ Round(MAX (0, ∑covlvl_{commodityi} * and Yield Exclusion, the Approved Yield will be the Approved Yield_{commodityj} (AY) P11 42 99999999.99 None greater of the calculated approved yield and the AY_{commodityi} * ProjPrice_{commodityi} adjusted yield. * Acres_{commoditvi}) -For skip row commodities, the approved yield is Simulated Revenue all commodities the converted approved yield from the P15 record **Protection Harvest Price** = \(\sum \) Round(MAX(0, Round(Yield_commodity)i) * with skip row (yield conversion factor) applied. **Excluded Losses Whole** Farm Reported Acreage must equal the sum of all Land, AdjStdDev_{commodityj} + AdjMean_{commodityj,12})),12) * Reported Acreage commodity P27, Reported Acreage. P11 48 999999.99 None Round(MIN(2 * ProjPrice_{commodityj}, Reported Acreage for each Commodity/Acreage (Acres) Round(e^{(Pricecommodityji * Price Volatility Factorcommodityj +} report line in the Whole Farm Unit. LnMeancommodityj),12)),12) * Round(Acres_{commodityj,12})), Edit with ADM Price, "A00810". 12) Projected Price or Contract ADM 99999.9999 None Projected Price or Contract Price (as addressed in Price_{commodityi} (ProjPrice) Section 1) for each Commodity/Acreage report line in the Whole Farm Unit. Yield Draw Quantity_{commodityi}i Yield Draw Quantity for each Commodity/Acreage

ADM

Yield)

S99.99999999

None

report line in the Whole Farm Unit.

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11	er: P11-1, Plan 01, 02, 03 ne: Acreage Version			Draft			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion				tion with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts		
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers		
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans		
	0018 Rice		·			0091 Barley			
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>			
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
		Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		999999999999999999999999999999999999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
		Adjusted Mean Quantity _{commodit} (AdjMean)	^{yj} Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
		Price Draw Quanity _{commodityj} i (Price)	ADM		S99.99999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft

Record Name: Acreage Record Code: P11 **Release Date: 1/5/2023 Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0043 Popcorn 0016 Oats 0067 Dry Peas 0081 Sovbeans

	0016 Oats 0018 Rice	0043 Popcorn 0067 Dry Peas				0081 Soybeans 0091 Barley	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Farm (contintued)	all commodities ∑ Round(MAX (0, ∑covlvl _{commodityj} * j= AY _{commodityj} * ProjPrice _{commodityj} * Acres _{commodityj}) - all commodities ∑ Round(MAX(0, Round(Yield _{commodityj}) j= AdjStdDev _{commodityj} + AdjMean _{commodityj} , Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^(Pricecommodityj) * Price Volatility Factorcommodityj + LnMeancommodityj), 12)),12) * Round(Acres _{commodityj,12})),	Price Volatility Factor _{commodityj}	Internal		999999.99999999	None	Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit.
	12)	log Mean _{commodityj} (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.
Revenue Protection	<u>SimRPLossesWF</u> 500	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Revenue Protection = Whole Farm Rate	$= \sum_{\text{conmodity}} \text{CovIvI}_{\text{commodity}} * \text{AY}_{\text{commodity}} * \text{ProjPrice}_{\text{commodity}} * $ $j = \sum_{\text{commodity}} \text{ProjPrice}_{\text{commodity}} * $	Revenue Protection Whole Farm Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
	Acres _{commodityj})	Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft

Record Name: Acreage Release Date: 1/5/2023 Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion
	0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts
Commodity Code	0015 Canola	0041 Corn	0051 Grain Sorghum	0078 Sunflowers

0041 Corn 0051 Grain Sorghum 0015 Canola 0016 Oats 0043 Popcorn 0067 Dry Peas

0081 Soybeans

0010 0015	oo is ropeoin			ooo, biy i cas		0001 30 y D Caris
0018 Rice						0091 Barley
<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> Rounding	<u>Rules</u>
<u>SimRPhpeLossesWF</u> 500	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Revenue Protection with Harvest Price Exclusion Whole Farm Rate $ \frac{\text{all commodities}}{\sum (\text{covlvl}_{\text{commodityj}} * \text{AY}_{\text{commodityj}} * \text{ProjPrice}_{\text{commodityj}} *} $	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
Acres _{commodityj})	Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
When Insurance Plan Code equals Revenue Protection, "02":						
Whole Farm Base Premium Rate = Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		999999999999999999999999999999999999999	None	
When Insurance Plan Code equals Revenue Protection with Harvest Price Exclusion, "03":						
Whole Farm Base = Revenue Protection with Harvest Price Exclusion Whole Premium Rate = Farm Rate	Whole Farm Base Premium Rate	Internal		999999999.99999999	None	

Insurance Plan Code		J	Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023 03 Revenue Protectio				n 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
	Calculations	<u>Field</u> Name	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 8: Premium Rate							The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.
When Unit Structure Code Premium Rate	e equals Whole Farm Unit, "WU": MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for	Premium Rate	Internal		999999999999999999999999999999999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit.
	Whole Farm including Prevented Planting), 8))	Total Reported Acreage	Internal		9999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage Record Code: P11 Reinsurance Year: 2023

Version: Draft
Release Date: 1/5/2023

		7-1						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Pr			03 Revenue Protecti	on with Harvest Price Exclusion	
	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts	
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers	
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans	
	0018 Rice						0091 Barley	
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>		
	Calculations	<u>Name</u>	<u>Number</u>	Number	<u>Format</u>	Rounding	Rules	
							Set Capped Revenue Add On Factor as	
When Unit Structure Cod	e DOES NOT EQUAL Whole Farm Unit, "WU":						follows:	
							If Insurance Plan Code equals 01, Capped	

When Unit Structure Code DOES NOT EQUAL Whole Farm Unit, "WU":				follows:
MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal	9999999999999999	If Insurance Plan Code equals 01, Capped Revenue Add On Factor will equal zero. If Unit Structure Code does not equal Whole Farm (WU), set Capped Revenue Add On Factor as follows: If Section 6 is applicable, Capped Revenue Add On Factor will equal Capped Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

	Record Na	Record Name: P11-1, Plan 01, 02, 03 Record Code: P11			Versio Release Dat			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	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	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
Section 9: Total Premium	Amount, Subsidy Amount, and Producer Premium Amo	unt						
		Preliminary Total Premium	Internal		999999999	Round to whole number.		
		Experience Factor	P11	47	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".	
Preliminary Total Premium	= Factor * Premium Surcharge Percent * Lotal Premium	Premium Surcharge Percent	Internal				Use when the Approved Yield Had a Cup or Surcharge applied. Does not apply when option "YC" is elected. Set to 1.00.	
		Total Premium Multiplicative Optional Rate Adjustment Factor	ADM		9.9999	None	If Option Rate with Rate Method Code equal "T". Edit with ADM Option Rate, "A01060". Currently this will be used for Short Rate Option.	
	Dualinaire and Tatal Duanian * Markinka Commonditus	Total Premium Amount	P11	95	999999999	Round to whole number.		
Total Premium Amount	= Preliminary Total Premium * Multiple Commodity Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.	
Subsidy Amount	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	93	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 for subsidy calculations.	
	,	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	94	999999999	Round to whole number.		

Reinsurance Year: 2023

	Exhibit Numbe Record Nam Record Cod	_		Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	Record	<u>Field</u>	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas <u>Field</u>	<u>Field</u>	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
Cottonseed Endorsement		<u>Name</u>	Number	<u>Number</u>	Format	Rounding	Information (Approved Yield, Reported Acreage, Insured Share Percent) will be obtained from Cotton P11 record and Rate Yield from P15 record associated with the Cottonseed record. CAT does not apply to Plan 01 Cottonseed. Unit Structure Code 'WU' does not apply to Cottonseed.
Section 10: Liability Calcu	lation						
		Modified Yield	Internal		9999999.99	Round to whole Number.	
Modified Yield	Modified Yield = Approved Yield * Option Conversion Factor		P11	42	9999999.99	None	From Cotton P11 record. For skip row cotton, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
		Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Premium Guarantee Per Acre Amount	= Modified Yield "Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.	
		Coverage Level Percent	P14	34	9.9999	None	
Guarantee Per Acre	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P":	Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.	
Amount	Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	69	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting.
		Price Election Amount	Internal		9999.9999	None	Cottonseed will equal the Projected Price from ADM regardless of Price Election Percent for Cotton Lint.
Price Flection Amount	= Projected Price * Price Flection Percent						
Price Election Amount	= Projected Price * Price Election Percent	Projected Price	ADM		99999.9999		

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage Record Code: P11 Reinsurance Year: 2023

Version: Draft
Release Date: 1/5/2023

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Reve	enue Protection with Harvest Price Exclusion
	0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts
Commodity Code	0015 Canola	0041 Corn	0051 Grain Sorghum	0078 Sunflowers
	0016 Oats	0043 Popcorn	0067 Dry Peas	0081 Soybeans
	0018 Rice			0091 Barley

	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Premium Total		Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
	Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	48	99999999.99	None	From Cotton P11 record.
	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	103	9999999.99	Round to 2 decimals.	
Total Guarantee Amount :		Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	48	999999.99	None	From Cotton P11 record.
Premium Liability	Premium Total Guarantee Amount * Insured Share	Premium Liability Amount	Internal		999999999	Round to whole	
Amount		Insured Share Percent	P11	43	9.9999	number. None	From Cotton P11 record.
Liability Amount :	Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	94	999999999	Round to whole number.	
,		Insured Share Percent	P11	43	9.9999		From Cotton P11 record.

Reinsurance Year: 2023 Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0021 Cotton 0011 Wheat 0075 Peanuts 0015 Canola **Commodity Code** 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field Field **Field** Rounding **Calculations** Name Number Number **Format** Rules Section 11: Premium Rate To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 3 of these procedures using the rating components for regular Cotton offer. If Yield Exclusion, Yield Cup, or Quality Loss is elected, see section 24 for the current year base premium rate calculation when the Round to 8 decimals. 9999999999999999 Premium Rate Internal Effective Coverage Level exceeds the MAX MIN(.999, Base Premium Rate * Unit Structure Discount ADM coverage level. Premium Rate = Factor * Multiplicative Optional Rate Adjustment Factor+ 3) Find the Unit Structure Discount Factor to Additive Optional Rate Factor) be applied later from section 2 of these procedures for regular Cotton offer. 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton 5) Sections 5, 6, 7 are not applicable for Cottonseed records. Multiplicative Optional Rate Internal 999999.9999 Adjustment Factor Additive Optional Rate Internal 999999.9999 Adjustment Factor Section 12: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole 999999999 Preliminary Total Premium Internal number. Preliminary Total = Premium Liability Amount * Premium Rate * Experience Premium Factor * Premium Rate Surcharge Percent Experience Factor is only applicable for Experience Factor P11 47 None 9.999 Insurance Plan Code Yield Protection, "01". Premium Rate Surcharge Does not apply when option "YC" is elected. Percent Set to 1.00.

Exhibit Number: P11-1, Plan 01, 02, 03

Record Code: P11

Producer Premium Amount = Total Premium Amount - Subsidy Amount

Reinsurance Year: 2023

999999999

Version: Draft
Release Date: 1/5/2023

Round to whole

number.

	Record Co	ode: P11			Release Date: 1/5/2023			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	02 Revenue Protection			03 Revenue Protection with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts	
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers	
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans	
	0018 Rice						0091 Barley	
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>		
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>	
Total Premium Amount	_ Preliminary Total Premium * Multiple Commodity	Total Premium Amount	P11	95	999999999	Round to whole number.		
rotal Premium Amount	Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".	
Subsidy Amount	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	93	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 for subsidy calculations.	
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	

P11

Producer Premium Amount

94

Exhibit Name: Premium Calculation **Reinsurance Year: 2023** Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 03 Revenue Protection with Harvest Price Exclusion **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0041 Corn 0015 Canola 0051 Grain Sorghum 0078 Sunflowers **Commodity Code** 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field Field **Field Calculations** Name Number Number **Format** Rounding Rules Trend Adjustment Option (TA), Yield Cup Option (YC), Quality Loss Option (QL), and APH Yield Trend (Trend Adjustment Option 'TA'), Yield Cup (Option 'YC'), Quality Loss Yield Exclusion Option (YE) ONLY available in Option 'QL'), and Yield Exclusion (Option 'YE') select counties for selected crops. See "white papers" for examples. Section 13: Effective Coverage Level Calculation When Commodity Code equals Dry Beans "0047" and Type Code equals Contract "62", or Commodity Code equals Dry Peas "0067" and Type Code equals Spring Contract "98": Effective Coverage Level 99.9999 Round to 2 decimals. Internal Percent Coverage Level Percent P14 34 9.9999 None For APH Trend, Yield Cup, Quality Loss, and Effective Coverage Level = Coverage Level Percent * Round(Approved Yield * Contract Price,0) / Adjusted Yield Yield Exclusion, the Approved Yield will be the Approved Yield P11 42 99999999.99 None greater of the calculated Approved Yield and the Adjusted Yield. Contract Price P11 46 9999.9999 None 44 99999999.99 Adjusted Yield P15 None For all others: Effective Coverage Level Rounded to 2 Internal 99.9999 Percent decimal places. P14 34 9.9999 Coverage Level Percent None For APH Trend, Yield Cup, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. Effective Coverage Level Percent * Approved Yield/Adjusted Yield

Percent * Approved Yield/Adjusted Yield P11 Approved Yield 42 99999999.99 None For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) For skip row commodities, the adjusted yield is the converted adjusted yield from the P15 99999999.99 Adjusted Yield P15 44 None record with skip row (yield conversion factor)

applied.

Exhibit Name: Premium Calculation **Reinsurance Year: 2023** Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Version: Draft Record Code: P11 Release Date: 1/5/2023 **Insurance Plan Code** 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection 02 Revenue Protection 0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley **Field** Record Field Field **Field Calculations** Rounding Name Number Number **Format** Rules When Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Section 14: Rate Differential Factor Cup Option (YC) was chosen or when Quality Loss Option (QL) was chosen or when Yield Exclusion Option (YE) was chosen. When the Insurance Option Code List contains Options "QL", "YE" or "YC": Round to 9 decimal Rate Differential Factor Internal 9.99999999 places Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Base Rate Differential Factor ADM 9.99999999 None Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". (1+ (ROUND (MIN ((MAX (0.85, Effective Coverage Based on the 'upper bound' Coverage Level. Level Percent) -0.85) / 0.15) ,1)³ ,7)) * 0.05) * (Round(Base Edit with ADM Coverage Level Differential, Rate Differential Factor + (Upper Bound Rate Differential Rate Differential Factor "A01040". Factor - Lower Bound Rate Differential Factor) * (Effective If the Effective Coverage Level equals an Coverage Level Percent - Floored Effective Coverage Level existing ADM Coverage Level then this will be Percent) * 20, 9)) based on the Effective Coverage Level. Upper Bound Rate ADM 9.99999999 None If the Effective Coverage Level falls between Differential Factor existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage

Level.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft

Record Name: Acreage Record Code: P11 **Release Date: 1/5/2023 Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

0021 Cotton 0047 Dry Beans 0011 Wheat 0075 Peanuts Commodity Code 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers

Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans
	0018 Rice						0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	<u>Rounding</u>	<u>Rules</u>
Rate Differential Factor	(1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (Round(Base	Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
(continued)	Factor - Lower Bound Rate Differential Factor) * (Effective	Effective Coverage Level Percent	Internal		99.9999	None	
	Percent) * 20, 9))	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

02 Revenue Protection

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

0047 Dry Beans

0067 Dry Peas

0051 Grain Sorghum

Record Name: Acreage
Record Code: P11

03 Revenue Protection with Harvest Price Exclusion

Commodity Code 0011 Wheat 0015 Canola 0016 Oats

01 Yield Protection

Insurance Plan Code

0021 Cotton 0041 Corn 0043 Popcorn

0078 Sunflowers 0081 Soybeans

0075 Peanuts

0018 Rice						0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
	Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.	
Round(Base Prior Year Rate Differential Factor + (Upper	Base Prior Year Rate Differential Factor	ADM		9.99999999	None	Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Prior Year Rate Differential Factor Bound Prior Year Rate Differential Factor - Lower Bound Prior Year Rate Differential Factor) * (Effective Coverage Level Percent) * 20, 9)	Upper Bound Prior Year Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

Coverage Level.

	Exhibit Number Record Name Record Code				Reinsurance Yea Versio Release Date	n: Draft	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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
	<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> Rounding	Rules
	Round(Base Prior Year Rate Differential Factor + (Upper	Lower Bound Prior Year Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
Prior Year Rate Differential Factor		Effective Coverage Level Percent	Internal		99.9999	None	coverage zeven
	Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

		ecord Name: Acreage Record Code: P11			Versior Release Date		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
When Trend Adjustment	Option "TA" is elected alone (excludes "YC" and				<u></u>	<u></u>	
		Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places	
		Base Rate Differential Factor	ADM		9.99999999	None	Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Rate Differential Factor	Round(Base Rate Differential Factor + (Upper Differential Factor - Lower Bound Rate Differe * (Effective Coverage Level Percent - Floored Coverage Level Percent) * 20, 9)	ential Factor)	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		99.9999	None	

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

	Record Name: Acreage Record Code: P11				Version: Draft Release Date: 1/5/2023			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
Rate Differential Factor	Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)		Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level Level Level.	

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft Record Name: Acreage

		Record Code: P11			Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion		
<u>Commodity Code</u>	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		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
		Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.			
	Round(Base Prior Year Rate Differential Factor + (Upper	Base Prior Year Rate Differential Factor	ADM		9.999999999	None	Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit wit ADM Coverage Level Differential, "A01040".		
Prior Year Rate Differential Factor	Bound Prior Year Rate Differential Factor - Lower Bound Prior Year Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Upper Bound Prior Year Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage		

	Record Name	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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			
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
Drive Week Date	Round(Base Prior Year Rate Differential Factor + (Upper	Lower Bound Prior Year Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.			
Prior Year Rate Differential Factor	Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage	Effective Coverage Level Percent	Internal		99.9999	None				
(contintued)	* 20, 9)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM			

Coverage Level.

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				ar: 2023 on: Draft te: 1/5/2023	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 15: Unit Residua							Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Cup Option was chosen or when Quality Loss Option (QL) was chosen or when Yield Exclusion Option (YE) was chosen.
When Unit Structure Cod	e is equal to Optional Unit, "OU"	, "UA", "UD", or Basic Unit, "BU", use the following calc	ulations for Un	t Residual Fa	ctor and Prior Year Unit	Residual Factor:	
		Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure regardless of Coverage Type Code where applicable (Buyup/CAT).
		Base Unit Residual Factor	ADM		999.999	None	Base Unit Residual Factor is equal to Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

Insurance Plan Code01 Yield Protection02 Revenue Protection03 Revenue Protection with Harvest Price Exclusion0011 Wheat0021 Cotton0047 Dry Beans0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0016 Oats
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0018 Rice 0091 Barley Field Field Record Field Field **Calculations** Number Number Rounding Name **Format** Rules Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Unit Residual Factor + (Upper Bound Unit If the Effective Coverage Level Percent equals Residual Factor - Lower Bound Unit Residual Factor) * Unit Residual Factor = an existing ADM Coverage Level then this will (Effective Coverage Level Percent - Floored Effective be based on the Effective Coverage Level Coverage Level Percent) * 20, 3) Percent. Upper Bound Unit Residual ADM 999.999 None If the Effective Coverage Level Percent falls Factor between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

	Record Cod	-				on: Draft te: 1/5/2023	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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
	<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> Rounding	<u>Rules</u>
	Round(Base Unit Residual Factor + (Upper Bound Unit	Lower Bound Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
Unit Residual Factor	Residual Factor - Lower Bound Unit Residual Factor) * = (Effective Coverage Level Percent - Floored Effective	Effective Coverage Level Percent	Internal		99.9999	None	
(continued)	Coverage Level Percent) * 20, 3)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage

Reinsurance Year: 2023 Version: Draft **Release Date: 1/5/2023**

Insurance Plan Code 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection

0011 Wheat 0021 Cotton 0047 Dry Beans **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0016 Oats 0043 Poncorn 0067 Dry Peas

Record Code: P11

0081 Sovbeans

0075 Peanuts

0078 Sunflowers

	0016 Oats 0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Prior Year Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
		Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Prior Year Unit Residual Factor	Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Prior = Year Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Upper Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft Record Name: Acreage Release Date: 1/5/2023 Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion
	0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts

0047 Dry Beans 0021 Cotton 0011 Wheat **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0067 Dry Peas 0016 Oats 0043 Popcorn 0081 Soybeans

0018 Rice	·			•		0091 Barley
Calculations	<u>Field</u>	<u>Record</u>	<u>Field</u>	<u>Field</u>	<u>Field</u>	Bules
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
	Effective Coverage Level Percent	Internal		99.9999	None	
Round(Base Prior Year Unit Residual Factor + (Upper Prior Year Unit Residual Bound Prior Year Unit Residual Factor - Lower Bound Prior Factor = Year Unit Residual Factor) * (Effective Coverage Level (continued) Percent - Floored Effective Coverage Level Percent) * 20, 3)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Record Code: P11

Release Date: 1/5/2023

	Record Code: P11		Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans
	0018 Rice						0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
		Enterprise Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure

Enterprise Unit Residual

Round(Base Enterprise Unit Residual Factor + (Upper
Bound Enterprise Unit Residual Factor - Lower Bound
Enterprise Unit Residual Factor) * (Effective Coverage
Level Percent - Floored Effective Coverage Level Percent)

* 20, 3)

				Edit with ADM Coverage Level Differential,
				"A01040".
				If the Effective Coverage Level Percent equals
				an existing ADM Coverage Level then this will
				be based on the Effective Coverage Level
Jpper Bound Enterprise Unit				Percent.
Residual Factor	ADM	999.999	None	If the Effective Coverage Level Percent falls
Residual Factor				between existing ADM Coverage Levels then
				this will be based on the higher ADM Coverage
				Level.
				If the Effective Coverage Level Percent is
				greater than the maximum ADM Coverage
				Level then this will be based on the highest

Based on the 'upper bound' Coverage Level.

ADM Coverage Level.

Coverage Level.

	Recor	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Yea Versio Release Dat		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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
	<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> Rounding	<u>Rules</u>
	Round(Base Enterprise Unit Residual Factor + (Up		ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
Enterprise Unit Residual Factor	Bound Enterprise Unit Residual Factor - Lower Bor = Enterprise Unit Residual Factor) * (Effective Cover	_	Internal		99.9999	None	
·	-	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM

Upper Bound Prior Year

Enterprise Unit Residual

Factor

Exhibit Number: P11-1, Plan 01, 02, 03

Coverage Level Percent) * 20, 3)

Reinsurance Year: 2023

999.999

None

If the Effective Coverage Level equals an existing ADM Coverage Level then this will be

based on the Effective Coverage Level.

If the Effective Coverage Level falls between

existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage

Version: Draft Record Name: Acreage Record Code: P11 Release Date: 1/5/2023 **Insurance Plan Code** 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection 02 Revenue Protection 0047 Dry Beans 0021 Cotton 0075 Peanuts 0011 Wheat **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Rounding Name Number Number **Format** Rules The cap value for the Residual Factors is the Round to 3 decimal Prior Year Enterprise Unit 999.999 Internal MAX(Residual Factor) from all coverage levels **Residual Factor** places. within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Base Enterprise Prior Year ADM 999.999 None Coverage Level or; 2) available Coverage Level Unit Residual Factor less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, Round(Base Enterprise Prior Year Unit Residual Factor + "A01040". (Upper Bound Prior Year Enterprise Unit Residual Factor -Based on the 'upper bound' Coverage Level. Prior Year Enterprise Unit = Lower Bound Prior Year Enterprise Unit Residual Factor) * Edit with ADM Coverage Level Differential, Residual Factor (Effective Coverage Level Percent - Floored Effective "A01040".

ADM

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Reinsurance Year: 2023

Version: Draft

Release Date: 1/5/2023

Record Code: P11

01 Yield Protection

02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

Commodity Code 0011 Wheat 0015 Canola 0016 Oats

Insurance Plan Code

0021 Cotton0047 Dry Beans0041 Corn0051 Grain Sorghum0043 Popcorn0067 Dry Peas

0078 Sunflowers 0081 Soybeans

0075 Peanuts

0018 Rice 0091 Barley Field Record Field Field **Field** <u>Number</u> **Calculations** Number Rounding Name **Format** Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be Lower Bound Prior Year based on the Effective Coverage Level. Enterprise Unit Residual ADM 999.999 None If the Effective Coverage Level falls between Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this Round(Base Enterprise Prior Year Unit Residual Factor + will be based on the second highest ADM Prior Year Enterprise Unit (Upper Bound Prior Year Enterprise Unit Residual Factor Coverage Level. Residual Factor = Lower Bound Prior Year Enterprise Unit Residual Factor) * Effective Coverage Level 99.9999 Internal None (continued) (Effective Coverage Level Percent - Floored Effective Percent Based on the 'floored' Coverage Level. Edit Coverage Level Percent) * 20, 3) with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be Floored Effective Coverage the Effective Coverage Level. Internal 99.9999 None **Level Percent** If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation **Exhibit Number:** P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

	Record Code	e: Acreage Version				n: Draft	
Insurance Plan Code	01 Yield 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
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
When Unit Structure Code	e is equal to Whole Farm Unit, 'WU', use the following calcu	lations for Whole Farm Unit Re	sidual Factor	and Prior Ye	ear Whole Farm Unit Resi	dual Factor:	
		Whole Farm Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
		Base Whole Farm Unit Residual Factor	ADM		999.999	None	Base Whole Farm Unit Residual Factor is equa to Whole Farm Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Whole Farm Unit Residual Factor	= Whole Farm Unit Residual Factor) * (Effective Coverage	Upper Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0016 Oats
 0018 Rice
 0067 Dry Peas
 0091 Barley

0018 Rice	0018 Rice 0091 Barley							
	<u>Field</u>	<u>Record</u>	<u>Field</u>	<u>Field</u>	<u>Field</u>			
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
Round(Base Whole Farm Unit Residual Factor + (Upper	Lower Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.		
Whole Farm Unit Bound Whole Farm Unit Residual Factor - Lower Bound Residual Factor = Whole Farm Unit Residual Factor) * (Effective Coverage	Effective Coverage Level Percent	Internal		99.9999	None			
(continued) Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.		

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

Record Name: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Version: Draft Release Date: 1/5/2023				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
	Pound(Paco Whole Farm Prior Vear Unit Pecidual Factor +	Prior Year Whole Farm Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
Prior Year Whole Farm Unit Residual Factor	Round(Base Whole Farm Prior Year Unit Residual Factor + (Upper Bound Prior Year Whole Farm Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Base Whole Farm Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Whole Farm Base Prior Year Unit Residual Factor is equal to Whole Farm Base Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Round(Base Whole Farm Prior Year Unit Residual Factor + (Upper Bound Prior Year Whole Farm Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Upper Bound Prior Year Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Prior Year Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		99.9999	None	

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

Record Name: Acreage Version
Record Code: P11 Release Date

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum

 0016 Oats
 0043 Popcorn
 0067 Dry Peas

7 Dry Peas 0081 Soybeans

0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Rounding Name Number Number **Format** Rules Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an Round(Base Whole Farm Prior Year Unit Residual Factor + existing ADM Coverage Level then this will be Prior Year Whole Farm Unit Residual Factor Unit Residual Factor Floored Effective Coverage

Unit Residual Factor - Lower Bound Prior Year Whole Farm Unit Residual Level Percent the Effective Coverage Level. Internal 99.9999 None If the Effective Coverage Level falls between Factor) * (Effective Coverage Level Percent - Floored existing ADM Coverage Levels then this will be Effective Coverage Level Percent) * 20, 3) the lower ADM Coverage Level. If the Effective Coverage Level is greater than

Section 15: Unit Discount Calculation

The lookup/interpolation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Option (TA), Yield Cup Option (YC), Quality Loss Option (QL), or Yield Exclusion Option (YE) was chosen and yield reflects a trend.

0075 Peanuts

0078 Sunflowers

the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

When Unit Structure Code is equal to Optional Unit, "OU", "UA", or "UD", use the following calculation for Unit Structure Discount Factor:

Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts

Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans
	0018 Rice					_	0091 Barley
	Calculations	<u>Field</u>	<u>Record</u>	<u>Field</u>	<u>Field</u>	<u>Field</u>	Post-
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
		Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0
	Base Coverage Level Percent Optional Unit Discount Factor	ADM		9.99999999	None	Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".	
	Discount Factor + (Upper Bound Coverage Level Percent Optional Unit Discount Factor - Lower Bound Coverage	Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
	Percent) * 20, 4)	Lower Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		99.9999	None	

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

Record Name: Acreage
Record Code: P11

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0016 Oats
 0018 Rice
 0067 Dry Peas
 0091 Barley

Field Field Field Record Field **Calculations** Name Number Number **Format** Rounding Rules Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Coverage Level Percent Optional Unit If the Effective Coverage Level equals an Discount Factor + (Upper Bound Coverage Level Percent existing ADM Coverage Level then this will be **Unit Structure Discount** Optional Unit Discount Factor - Lower Bound Coverage Floored Effective Coverage the Effective Coverage Level. 99.9999 None Factor = Internal If the Effective Coverage Level falls between Level Percent Optional Unit Discount Factor) * (Effective Level Percent (continued) Coverage Level Percent - Floored Effective Coverage Level existing ADM Coverage Levels then this will be Percent) * 20, 4) the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023
Version: Draft
Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

Commodity Code0011 Wheat0021 Cotton0047 Dry Beans0075 PeanutsCommodity Code0015 Canola0041 Corn0051 Grain Sorghum0078 Sunflowers0016 Oats0016 Oats0043 Popcorn0067 Dry Peas0081 Soybeans

0018 Rice 0091 Barley Field Record Field Field **Field Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor: Unit Structure Discount Round to 4 decimal Internal 9.99999999 Capped at 1.0 Factor places. Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Base Coverage Level Percent Minimum of 1) Maximum available Coverage Level ADM 9.99999999 None Basic Unit Discount Factor or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the **Upper Bound Coverage Level** Effective Coverage Level. Round(Base Coverage Level Percent Basic Unit Discount Percent Basic Unit Discount ADM 9.99999999 None If the Effective Coverage Level falls between Factor + (Upper Bound Coverage Level Percent Basic Unit Factor existing ADM Coverage Levels then this will be Unit Structure Discount Discount Factor - Lower Bound Coverage Level Percent based on the higher ADM Coverage Level. Factor Basic Unit Discount Factor) * (Effective Coverage Level If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be Percent - Floored Effective Coverage Level Percent) * 20, based on the highest ADM Coverage Level. Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Lower Bound Coverage Level Effective Coverage Level. Percent Basic Unit Discount ADM None If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Factor based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

0078 Sunflowers

Record Code: P11 Release Da

Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion
	0011 Wheat	0021 Cotton	0047 Dry Beans	0075 Peanuts

Commodity Code0015 Canola0041 Corn0051 Grain Sorghum0016 Oats0043 Popcorn0067 Dry Peas

0016 Oats 0018 Rice	0043 Popcorn		0067 Dry Peas			0081 Soybeans 0091 Barley	
<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> Rounding	<u>Rules</u>	
	Effective Coverage Level Percent	Internal		99.9999	None		
Unit Structure Discount Factor = (continued) Round(Base Coverage Level Percent Basic Unit Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.	

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0016 Oats 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0018 Rice 0091 Barley

0018 Rice 0091 Barley									
	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>				
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>			
When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculation for Unit Structure Discount Factor:									
	Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0			
	Base Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.99999999	None	Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".			
Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Unit Structure Discount Factor = Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Upper Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.			
	Lower Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.			

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage Record Code: P11 Reinsurance Year: 2023

Version: Draft
Release Date: 1/5/2023

Insurance Plan Cod	<u>de</u> 01 Yield Protection	02 Revenue Protection	02 Revenue Protection			03 Revenue Protection with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts	
Commodity Code	<u>e</u> 0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers	
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans	
	0018 Rice						0091 Barley	
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>		
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	<u>Rounding</u>	<u>Rules</u>	

	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
		Effective Coverage Level Percent	Internal		99.9999	None	
Unit Structure Discount Factor (continued)	Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Downed Rice Endorsement (DRE) Option 'DC'

CAT does not apply to Downed Rice (DRE).
Only Unit Structure Codes 'BU and OU' apply regardless of the base Rice selection. Price Election Percent for base Rice will apply to DRE. Subsidy Level will be 38% for DRE regardless of the base Rice Unit Structure or Coverage Level. Insured Share can be different for DRE than base Rice. Insured Share will be 100%. DRE coverage is not available for high-risk CAT acreage if excluded from additional coverage for Base Rice.

Exhibit Number: P11-1, Plan 01, 02, 03

Record Name: Acreage

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023

Insurance Plan Code 03 Revenue Protection with Harvest Price Exclusion 01 Yield Protection 02 Revenue Protection

	0011 Wheat	0021 Cotton			0047 Dry Beans		0075 Peanuts
Commodity Code	0015 Canola	0041 Corn			0051 Grain Sorghum		0078 Sunflowers
	0016 Oats	0043 Popcorn			0067 Dry Peas		0081 Soybeans
	0018 Rice						0091 Barley
		<u>Field</u>	<u>Record</u>	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Section 16: Liability Calc	ulation						
		Premium Liability Amount	Internal		999999999	Round to whole number.	
Premium Liabilit	= Dollar Amount of Insurance * Reported Acreage * Insured Share Percent * Price Election Percent	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
Amoun		Reported Acreage	P11	48	99999999.99	None	
		Insured Share Percent	P11	43	9.9999	None	DRE insured share will always be 100% without regards to base Rice.
		Price Election Percent	ICE		9.9999	None	From base Rice P14 record.
		Liability Amount	P11	94	999999999	Round to whole number.	
	Dollar Amount of Insurance * Reported Acreage * Insured	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
Liability Amoun	Share Percent * Price Election Percent	Reported Acreage	P11	48	999999.99	None	
		Insured Share Percent	P11	43	9.9999	None	DRE insured share will always be 100% without regards to base Rice.
		Price Election Percent	ICE		9.9999	None	From base Rice P14 record.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023

Record Name: Acreage Record Code: P11			Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion 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	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules	
Section 17: Total Premiun	n Amount, Subsidy Amount, and Producer Premium Amoun	t						
Preliminary Total		Preliminary Total Premium	Internal		999999999	Round to whole number.		
Premium	= Premium Liability Amount * Premium Rate	Premium Rate	ADM			None	Edit with ADM Option Rate, "A01060", rate with insurance option = 'DC'.	
Total Premium Amount	= Preliminary Total Premium	Total Premium Amount	P11	95	999999999	Round to whole number.		
Subsidy Amount = Total Premium Amount * Subsidy Percent		Subsidy Amount	P11	93	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 for subsidy calculations.	
			ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070". Will always be 38% for DRE.	
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	94	999999999	Round to whole number.		
Section 18: Beginning Farn	ner and Rancher (BFR), Veteran Farmer Rancher (VFR), Nati	ve Sod (NS) and Conservation	Compliance ((CC) Subsidy (Calculations			
Base Subsidy Amount	= Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	
BFR/VFR Subsidy Amount	= Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount	Internal		999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).	
Native Sod Subsidy Amount	= Total Premium Amount * 0.50	Native Sod Subsidy Amount	Internal		999999999	Round to whole number	If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.	
CC Subsidy Reduction	= Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Percent	P11	76	9.9999	None	If Applicable; else 0.	
Amount	- base Substay Afficant - CC Substay Reduction Percent	CC Subsidy Reduction Amount	P11	111	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.	
Subsidy Amount	= Base Subsidy Amount + BFR/VFR Subsidy Amount - Native Sod Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P11	93	999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0.	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton0047 Dry Beans0041 Corn0051 Grain Sorghum0043 Popcorn0067 Dry Peas			0051 Grain Sorghum	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley			
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	94	999999999	Round to whole number			
Section 19: Yield Cup, Yield	Exclusion, Quality Loss, and Trend APH Current Year Base	Premium Rate Calculations (on	lly use when	the Effective	Coverage Level for the re	ecord exceeds the high	est coverage level for the offer in the ADM)		
		Unadjusted Liability Amount	Internal		999999999	Round to whole number			
Unadiusted Liahility	Round((Coverage Level Percent/Effective Coverage Level	Coverage Level Percent	P14	34	9.9999	None			
Amount	= Round((Coverage Level Percent/Effective Coverage Level Percent),10) * Premium Liability Amount	Effective Coverage Level Percent	Internal		99.9999				
		Premium Liability Amount	Internal		999999999	Round to whole number			

Exhibit Name: Premium Calculation **xhibit Number:** P11-1, Plan 01, 02, 03

	Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2023 Version: Draft Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		
		Max Coverage Level Adjustment Factor	Internal		99999999.99999999	Round to 8 decimals.			
	When Unit Structure Code is equal to Optional Unit, "OU", "UA" or "UD: ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Base Optional Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Unadjusted Liability Amount	Internal		999999999	Round to whole number			
		Current Year Base Rate	Internal		9999999999.99999	Round to 8 decimals.			
		Premium Liability Amount	Internal		999999999	Round to whole number			
		Base Rate Differential Factor	ADM		9.99999999	None			
		Base Unit Residual Factor	ADM		999.999	None			
Max Coverage Level Adjustment Factor		Base Optional Unit Structure Discount Factor	ADM		9.99999999	None	Base Optional Unit Structure Discount Factor equal to Optional Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info.		
	When Unit Structure code is Basic Unit, "BU": ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Base Basic Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Base Basic Unit Structure Discount Factor	ADM		9.99999999	None	Base Basic Unit Structure Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00.		

Exhibit Number: P11-1, Plan 01, 02, 03
Record Name: Acreage

Reinsurance Year: 2023

Version: Draft

Release Date: 1/5/20

Record Code: P11 Release Date: 1/5/2023

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion

Commodity Code0011 Wheat0021 Cotton0047 Dry Beans0075 PeanutsCommodity Code0015 Canola0041 Corn0051 Grain Sorghum0078 Sunflowers0016 Oats0018 Rice0043 Popcorn0067 Dry Peas0091 Barley

	0018 Rice		0091 Barley				
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	When Unit Structure code is Enterprise Unit, "EU": ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Enterprise Unit Residual Factor * Base Enterprise Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Base Enterprise Unit Structure Discount Factor	ADM		9.99999999	None	Base Enterprise Unit Structure Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00.
		Base Enterprise Unit Residual Factor	ADM		999.999	None	Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	ROUND(1.00/ Current Year Base Rate,8) – ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base	Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
		Base Whole Farm Unit Residual Factor	ADM		999.999	None	Base Whole Farm Unit Residual Factor is equal to Whole Farm Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft

Record Name: Acreage

	Record Name: Record Code:	Release Date: 1/5/2023					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n 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
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Marginal rate Adjustment Marginal Adjustment Rate Factor	Internal		9.9999999	Round to 8 decimals.	
		Max Coverage Level Adjustment Factor	Internal		9999999999999999	Round to 8 decimals.	
	Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit Structure Discount Factor)	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Marginal Rate Adjustment Factor		Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
	When Unit Structure code is Enterprise Unit, "EU": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Enterprise Unit Residual Factor * Unit Structure Discount Factor)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit, 'El
	When Unit Structure code is Whole Farm Unit, "WU": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Whole Farm Unit Residual Factor * Unit Structure Discount Factor)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), and "YE" (Yield Structure Code equal Whole Farm Unit, 'WU'.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft Record Name: Acreage

	Record Code:	G		Release Date: 1/5/2023			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	on 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
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Current Year Base Premium Rate	Internal		999999999999999999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Current Year Base		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
Premium Rate		Marginal Rate Adjustment Factor	Internal		999999999999999999999	Round to 8 decimals.	
-	When Unit Structure code is Enterprise Unit, "EU": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU'.
=	When Unit Structure code is Whole Farm Unit, "WU": Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit, 'WU'.

Exhibit Number: P11-1, Plan 01, 02, 03

Reinsurance Year: 2023 Version: Draft

		Record Name: Acreage Record Code: P11			Version: Release Date:		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0016 Oats 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0041 Corn 0051 Grain Sorghum			orghum 0078 Sunflowers	
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Section 20: Yield Cup, Yiel n the ADM).	d Exclusion, Quality Loss, and Trend APH for CottonseedC	urrent Year Base Premium Rate Current Year Base Premium	I	s (only use w		ı	exceeds the highest coverage level for the offe
Current Year Base Premium Rate	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Rate Rate Differential Factor	Internal ADM		999999999999999999999999999999999999999	Round to 8 decimals. None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
		Marginal Rate Adjustment Factor	Internal		99999999999999999	Round to 8 decimals.	Copy value over from the base lint line.
	When Unit Structure Code is is Enterprise Unit, "EU": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU'.