	Exhibi Rec	ibit Name: Premium Calculation it Number: P11-1, Plan 01, 02, 03 ord Name: Acreage cord Code: P11				ar: 2021 on: Approved te: 7/1/2020	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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	Field	Field	<u>Field</u>	
	<u>Calculations</u>	Name	Number	Number	<u>Format</u>	Rounding	Rules
Section 1: Liability Calcula	ation						
Bromium Guarantea Da		Premium Guarantee Per Acre Amount	Internal		9999999999.99	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 decimal.	Common Crop Insurance Policy definition 'production guarantee (per acre)'. Premium Guarantee Per Acre Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
Acre Amouni	r = Approved Yield * Coverage Level Percent t	Approved Yield	P11	42	99999999.99	None	For APH Trend Quality Loss, Yield Cup, and Yield Exclusion, the Approved Yield will be the greate 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 Nur Record N	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion				
Commodity Code	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>				
Guarantee Per Acre Amount	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	Internal		9999999999.99	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 Perc	ent Price Election Amount	Internal		9999.9999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. If result is based on Contract Price round to nearest one hundredth cent (\$9.9999).					

	Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion				
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules				
Price Election Amount (contintued)	= Projected Price (or Contract Price) * Price Election Percent	Price Election Amount (continued)	Internal		9999.9999	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 hundredth cent (\$9.9999). When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas,"0067" round to nearest one- hundredth cent [\$9.9999].					
		Projected Price	ADM		99999.9999		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 Protection with Harvest Price Exclusion, "03", requires the producer to choose 100 percent of the Projected Price. Edit with ADM Price, "00810".				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
Price Election Amount (continued)	= Projected Price (or Contract Price) * Price Election Perc	ent 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, when Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007".			
Dromium Total Cuarantee	Dramium Cuarantas Dar Assa Amaunt * Drias Election	Premium Total Guarantee Amount	Internal		999999999.99	Round to 2 decimals.				
	= Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Price Election Amount Reported Acreage	Internal P11	48	9999.9999 99999999.99	None None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.			

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Yea Versio Release Dat	n: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	103	99999999.99	Round to 2 decimals.	
Total Guarantee Amount =	Reported Acreage	Price Election Amount Reported Acreage	Internal P11	48	9999.9999 999999.99	None None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
Premium Liability Amount =	 Premium Total Guarantee Amount * Insured Share Percent 	Premium Liability Amount	Internal		9999999999	Round to whole number.	
		Insured Share Percent	P11	43	9.9999	None	
Liability Amount -	- Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	94	9999999999	Round to whole number.	
Liability Amount -		Insured Share Percent	P11	43	9.9999	None	
ection 2: Unit Discount Cal	culation						The appropriate discount factor should be looked up and applied.
Vhen commodities are setu	up in the unit discount table for lookups based solely on acre	25.					
=	When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU" or "EP":	Revenue Lookup Adjustment Factor	Internal		9.99999999	None	
Revenue Lookup	Unit Structure Discount Factor						
Adjustment Factor =	When the Unit Structure Code is Whole Farm Unit "WU": 	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 From below for Unit Structures "OU, UA, UD BU, EU or EP".

		•			: 2021 : Approved : 7/1/2020		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	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" or "EP": 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 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 Uni Discount, "A01090". Unit is not eligible as an enterprise unit if summed planted acres are les than 20 acres or 20% of insured crop acreage.

		•	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection 0011 Wheat 0015 Canola	02 Revenue Protection 0021 Cotton 0041 Corn			0047 Dry Beans 0051 Grain Sorghum	03 Revenue Protect	on with Harvest Price Exclusion 0075 Peanuts 0078 Sunflowers	
	0018 Rice	0043 Popcorn Field	Record		0067 Dry Peas Field	Field	0081 Soybeans 0091 Barley	
	<u>Calculations</u>	Name	Number	Number	<u>Format</u>	Rounding	Rules	
/hen commodities are set	up in the unit discount table for lookups based on acres <u>and</u> When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	coverage levels. Revenue Lookup Adjustment Factor	Internal		9.99999999	None		
	Unit Structure Discount Factor	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 From below for Unit Structure "OU", "UA", or "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 659 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 High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.	
	When the Unit Structure Code is Enterprise Unit, "EU" or "EP" 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 659 Coverage Level. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which wer 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 Un Discount, "A01090" for 65% Coverage Level.	

	Exhibit Name: Premium Calculatior Exhibit Number: P11-1, Plan 01, 02, 0 Record Name: Acreage Record Code: P11								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	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 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 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 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 Exclusion), and "QL" (Quality Loss Option).		

Insurance Plan Code	Exhibit N Record	Name: Premium Calculation umber: P11-1, Plan 01, 02, 03 Name: Acreage d Code: P11 02 Revenue Protection				n: Approved e: 7/1/2020	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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
Unit Structure Discount Factor (contintued)	When the Unit Structure Code is Enterprise Unit, "El "EP": Enterprise Unit Discount Factor	J" or 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 Uni 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).

	Exhib Rec	ibit Name: Premium Calculation it Number: P11-1, Plan 01, 02, 03 ord Name: Acreage cord Code: P11			Reinsurance Yea Versio Release Dat	n: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 3: Base Premium F	Rate Calculation						If Written Agreement is applicable make the necessary changes as provided by the agreement and ROE ADM.
		Current Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Current Year Yield Ratio	= Rate Yield / Reference Amount	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.
		Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Vhen previous year yield quals Spring Contract "98	limitation code = '03', Insurance Option Code List co 3":	ntains Yield Cup (YC), and Commodity Coo	le Dry Bear	ns "0047" a	and Type Code equals Con	tract "62", or Commodit	y Code equals Dry Peas "0067" and Type Code
		Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
Prior Year Yield Ratio	Round(Approved Yield * Contract Price,0) / Prior	Year Approved Yield	P11	42	99999999.99	None	
	Reference Amount	Contract Price	P11	46	9999.9999	None	
		Prior year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Vhen previous year yield	limitation code = '03' and Insurance Option Code Lis	t contains Yield Cup (YC) and the aforeme	ntioned co	mmodities	/types are not applicable:		
		Prior Year Yield Ration	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Prior Year Yield Ratio	= Approved Yield / Prior Year Reference Amount	Approved Yield	P11	42	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 Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".

	Exhibit Nur Record N	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	ue Protection 03 Revenue Protection with Harve							
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
Otherwise:										
		Prior Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.			
Prior Year Yield Ratio	= Rate Yield / Prior Year Reference Amount	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 Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".			
Current Year Rate	= Current Year Yield Ratio ^ Exponent Value	Current Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.				
Multiplier		Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".			
Prior Year Rate Multiplier	Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value		Internal		9999.99999999	Round to 8 decimals.				
		Prior Year Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".			

		•		Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection	n with Harvest Price Exclusion					
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> Rounding	Rules			
	When Rate Method Code is Fixed, "F":	Current Year Base Rate	Internal		9999999999.99999999	Round to 8 decimals.				
=	Sub County Rate	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050".			
= Current Year Base Rate	When Rate Method Code is Additive, "A": Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Current Year Rate Multiplier	Internal		9999.99999999	None				
=	When Rate Method Code is Multiplicative, "M": Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".			
=	Otherwise: Current Year Rate Multiplier * Reference Rate + Fixed rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".			
	When Rate Method Code is Fixed, "F":	Prior Year Base Rate	Internal		9999999999.99999999	Round to 8 decimals.				
=	Sub County Rate	Sub County Rate	ADM		99.9999	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: Record Name:	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion				
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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				
		Current Year Base Premium Rate	Internal		9999999999.99999999	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 *	Rate Differential Factor	ADM		9.999999999	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, 8)	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" or "EP": 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' or 'EP'.				
-	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'.				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectior	n with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	L Corn 0051 Grain Sorghum 0078 Sunflowers 0067 Dry Peas 0081 Soybeans				0078 Sunflowers		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
When previous year yield lin	nitation code = '03' and Insurance Option Code List contains	Yield Cup (YC):							
	When Unit Structure Code is equal to Optional Unit,	Prior Year Base Premium Rate	Internal		99999999999.99999999	Round to 8 decimals.			
	"OU", "UA", "UD", or Basic Unit, "BU":	Prior Year Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040."		
	Round(Prior Year Base Rate * 1.05 * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8)	Prior Year Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040."		
Prior Year Base Premium Rate	When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Prior Year Base Rate * 1.05* Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8)	Prior Year Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".		
	When Unit Structure code is Whole Farm Unit, 'WU': Round(Prior Year Base Rate * 1.05 * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8)	Prior Year Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040."		

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0015 Canola	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> <u>Format</u>	<u>Field</u> Rounding	Rules			
Otherwise:										
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Prior Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.				
	Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8)	Prior Year Rate Differential Factor	ADM		9.999999999	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).			
- Prior Year Base Premium		Prior Year 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), "QL" (Quality Loss) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU".			
Rate -	When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8)	Prior Year 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' or 'EP'.			
-	When Unit Structure code is Whole Farm Unit, 'WU': Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8)	Prior Year 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'			
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999)	Base Premium Rate	P11	97	9999999999.99999999	Round to 8 decimals.				
Revenue Lookup Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.9999)	Revenue Lookup Rate	Internal		99999999999.9999	Round to 4 decimals.				

	Exhil	hibit Name: Premium Calculation bit Number: P11-1, Plan 01, 02, 03 cord Name: Acreage ecord Code: P11	P11-1, Plan 01, 02, 03 Reinsurance Year: 2021 Acreage Version: Approved				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectior	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> <u>Rounding</u>	Rules
ection 4: Optional Coverag	e (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.	
	When Rate Method Code is Additive, "A":	Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A' Edit with ADM Option Rate, "A01060".
Additive Optional Rate Adjustment Factor	Soption Rate * Rate Differential Factor						Edit with ADM Coverage Level Differential, "A01040".
		Rate Differential Factor	ADM		9.99999999	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"	: 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".

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.

Section 5: Revenue Coverage Add on Rates (Applicable only for Plans 02 and 03)

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Yea Versior Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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	Field	Field	Field	
	<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	Rules
		Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.	
Adjusted Mean Quantity	Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100		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		999.999999999	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		9999999999.9999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity = Approved Yield * Standard Deviation Quantity / 100		Approved Yield (AY) ty / 100	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 cotton, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
		Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using Lookup Rate.

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		log Mean Quantity (LnMean)	Internal		999999.999999999	Round to 8 decimals.	
LnMean	Ln(Projected Price or Contract Price) –	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".
	(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} _{Number}	For Sequence Number 1 to 500 = Yield Draw Quantity	Yield Draw Quantity	ADM		599.999999999	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 Offer ADM, "A00030".
Price Draw Quanity _{Sequence} _{Number}	For Sequence Number 1 to 500 = Price Draw Quantity	Price Draw Quantity	ADM		599.999999999	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 Offer ADM

		•			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
		Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		99999999999.999999999999	Round to 12 decimals.	
Simulated Yield Protection Losses Quantity	500 = ΣRound(MAX(0, AY * covlvl - Round(MAX(0, Yieldi * i=1 AdjStndDev + AdjMean),12)), 12)	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.
		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		\$99.999999999	None	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules		
		Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		9999999999.999999999999	Round to 12 decimals.			
Simulated Revenue Protection Losses = Quantity	<pre>500</pre>	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.		
			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		\$99.999999999	None			
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.		

	Exhibit Name: Premi Exhibit Number: P11-1 Record Name: Acrea Record Code: P11				Version	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
		Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		9999999999,99999999999	Round to 12 decimals.		
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity	ⁱ⁼¹ AdjStdDev + AdjMean), 12) * Round(MIN(2 *	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.	
		Coverage Level Percent (covIvI)	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).	
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<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.	
Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	(Simulated Revenue Protection with harvest Price Exclusior = Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.999999999	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		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 Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection			03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton		0047 Dry Beans		0075 Peanuts
Commodity Code	0015 Canola	0041 Corn		0051 Grain Sorghum		0078 Sunflowers
	0018 Rice	0043 Popcorn		0067 Dry Peas		0081 Soybeans
						0091 Barley
		Field	Record Field	Field	Field	
	Calculations	Name	Number Numbe	r <u>Format</u>	Rounding	Rules

This section is for calculation the 2010 Revenue Assurance Optional Unit Level Base Premium Rate for coverage level percents 65 thru 85 where applicable. Then it is used in conjunction with the Base Premium Rate and Revenue Add On Rates to compute capped Revenue Add On Rates. This table is set up such that the only value that will change from year to year is the Commodity Year. By doing this we are fixing a point where the premium calculation method was changed and applying an exponential capping over time.

If there is NOT a corresponding row in the Historical Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55, 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performed for those coverage level percents as well. If TA is applicable then this will be based on the TA Effective Coverage Level Percent. See next statement.

When TA, QL, and YE Option is selected, this section does not apply when the Effective Coverage Level is less than 65%.

Section 6: Historical Revenue Capping (Applicable only for Plans 02 and 03) Note: This Section will not apply if record has a Written Agreement.

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Version	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn		0051 Grain Sorghum000067 Dry Peas00			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> Format	<u>Field</u> Rounding	Rules	
		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".	
		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".	
Conning Poto Multiplica		Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.		
Capping Rate Multiplier	Capping Yield Ratio ^A Capping Exponent Vield Ratio ^A Capping Ratio ^A Cappin	lue Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110".	

		-	Plan 01, 02, 03 Reinsurance Year: 2021						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>		
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		\$99.999	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".		
	If Rate Method Code = Fixed "F": Sub County Rate	Historical Prior Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.			
	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".		
Historical Basic Unit Base Rate	.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.			

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> 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).		
Historical Revenue Protection 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 Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield +	Historical Revenue Protection Base Premium Rate	Internal		9999999999.99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.			
	Beta 13 Factor * Coverage Level Percent * Price Volatility	Beta 0 Factor - Beta 14 Factor	ADM		\$99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".		
	Factor +	Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".		
	Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1	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" or "EP": 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).		

		-	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectic	on with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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		
	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 5 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 Yield / Capping Reference Yield + 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 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) *	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		9999999999,99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.			
	Price Volatility Factor] * Unit Residual Factor X 1.1	Beta 0 Factor - Beta 14 Factor	ADM		\$99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".		
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".		
		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" or "EP": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor Page 2	ADM 7 of 77		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 Numb Record Nar	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules			
Capped Revenue Protection Add on Rate	MIN(Base Premium Rate + Preliminary Revenue Protectic Add On Rate, Historical Revenue Protection Base Premiur Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate		Internal		9999999999,9999999	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.			
	Premium Rate	Base Premium Rate	P11	97	999999.99999999	None				
		Commodity Year	P14	10	CCYY	None				
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".			
Protection with Harvest Price Exclusion Add on Price Exclusion Add on	MIN(Base Premium Rate + Preliminary Revenue Protectic with Harvest Price Exclusion Add On Rate, Historical = Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping Year)) -	Capped Revenue Protection n with Harvest Price Exclusion Add on Rate	Internal		9999999999.9999999	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	Base Premium Rate	Base Premium Rate	P11	97	999999.99999999	None				
		Commodity Year	P14	10	ССҮҮ	None				
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".			

	Exhib Rec	Exhibit Name: Premium Calculation 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 Protectio	on			03 Revenue Protectior	with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	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> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
Section 7: Whole Farm Uni	t Base Premium Rate						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. 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		9999999999.9999	Round to 4 decimals.	
Lookup Rate	= Revenue Lookup Rate * Revenue Lookup Adjustn	ent Factor Revenue Lookup Rate	e Internal		9999999999.9999	Round to 4 decimals.	From Section 3.
		Revenue Lookup Adju Factor	ustment Internal		9.99999999	None	From Section 2.
Mean Quantity _{commodityj}	= Mean Quantity _{commodityj} WHERE Lookup Rate _{comm}	Mean Quantity _{commoc} _{odityj} = Base	dityj ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Lookup Rate = Base Rate
		Lookup Rate commodity	_{ij} Internal		9.9999	None	
		Base Rate _{commodityj}	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code 01 Yield Protection Commodity Code 0011 Wheat 0015 Canola 0018 Rice		02 Revenue Protection 0021 Cotton 0041 Corn 0043 Popcorn	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas			03 Revenue Protection	n with Harvest Price Exclusion 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
<u>Calculations</u>		<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Standard Deviation Quantity _{commodityj} = Standard Deviation	Quantity _{commodityj} WHERE Lookup Rate ² commodityj	Standard Deviation Quantity	ADM		999.999999999	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		999999.9999999999	Round to 8 decimals.	
Adjusted Mean Quantity commodityj = Approved Yield _{comm}	_{nodityj} * Mean Quantity _{commodityj} / 100	Approved Yield _{commodityj}	P11	42	99999999.99	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.
		Adjusted Standard Deviation Quantity _{commodityj}	Internal		9999999999.99999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity = Approved Yield _{comm} Standard Deviation	^{nodityj} * Quantity _{commodityj} / 100	Approved Yield _{commodityj}	P11	42	99999999.99	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 Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
		log Mean _{commodityj} (LnMean)	Internal		999999.99999999	Round to 8 decimals.		
LnMean _{commodityj}	= In(Projected Price or Contract Price _{commodityj}) - (Price Volatility Factor _{commodityj}) ² / 2	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		\$99.999999999	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		\$99.999999999	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".	

		•	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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		
	Columbations	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	Data		
	Calculations	Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules		
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		9999999999.999999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.		
		Coverage Level Percent _{commodityj} (covivi)	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).		
500 all Commodities ∑ Round(MAX(0,∑ Ay _{commodityj})* i=1 j= Acres _{commodityj} * covlvl _{commodityj} * Round(MAX(ProjPrice _{commodityj} , Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^{(Pricecommodityj * Price Vola}) Simulated Revenue Eastorcommodityj, Lowearcommodityj, and the other state of the	∑ Round(MAX(0,∑ Ay _{commodityj} * i=1 j= Acres _{commodityj} * covlvl _{commodityj} * Round(MAX(ProjPrice _{commodityj} , Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^(Pricecommodityj) * Price Volatility Factor-commodityj + LnMeancommodityj) 12)) 12) 12) -	Approved Yield _{commodityj} (AY)	P11	42	99999999.99	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) *	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.		
	Round(MIN(2 * ProjPrice _{commodiyj} , Round(e ^{(Pricecommod} * Price Volatility Factorcommodityj + LnMeancommodityj), 12)),12) * Round(Acres _{commodityj,12})), 12)	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 Farm Unit.		
		Price Draw Quanity _{commodityj} i (Price)	ADM		\$99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.		
		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		\$99.999999999	None	Yield 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: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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
Simulated Revenue Protection Losses Whole Farm (continued)	all Commodities ∑ Round(MAX(0, Round (Yield _{commodityji} * j= AdjStdDev _{commodityj} + AdjMean _{commodityj} , 12), 12) * Round(MIN(2 * ProjPrice _{commodityj} , Round (e ^(Pricecommodityji) * Price Volatility Factorcommodityj + LnMeancommodityj), 12), 12) *	Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		99999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Round(Acres _{commodityj,12})), 12)	Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.9999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

		•								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	<u>Rules</u>			
		Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		9999999999.99999999999	Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.			
		Coverage Level Percent _{commodityj} (covivi)	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).			
Simulated Revenue	500 all commodities ∑ Round(MAX (0, ∑covIvI _{commodityj} * i=1 j= AY _{commodityj} * ProjPrice _{commodityj} * Acres _{commodityj}) - all commodities	Approved Yield _{commodityj} (AY)	P11	42	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, Yield Cup, 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			
Protection Harvest Price Excluded Losses Whole Farm =	∑ Round(MAX(0, Round(Yield _{commodityji} * j= AdjStdDev _{commodityj} + AdjMean _{commodityj,12})),12) * Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^{(Pricecommodityji * Price Volatility Factorcommodityj +}	Reported Acreage _{commodityj} (Acres)	P11	48	999999.99	None	skip row (yield conversion factor) applied. 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.			
LnMeancommodityj) ,12)),12) * Round (Acres _{commodityj,12})), .	LnMeancommodityj),12)),12) * Round(Acres _{commodityj,12})), 12)	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.			
		Yield Draw Quantity _{commodityj} i (Yield)	ADM		\$99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			

		-			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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	Field Rounding	Rules
	<u></u>	Price Draw Quanity _{commodityi} i (Price)	ADM		 \$99.999999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (contintued)	500 all commodities ∑ Round(MAX (0, ∑covlvl _{commodityj} * i=1 j= AY _{commodityj} * ProjPrice _{commodityj} * * Acres _{commodityj} > all commodities ∑ Round(MAX(0, Round(Yield _{commodityj} * j= AdjStdDev _{commodityj} + AdjMean _{commodityj,12})),12) * Round(MIN(2 * ProjPrice _{commodityj} Round(e ^(Pricecommodityj) * Price Volatility Factorcommodityj + LnMeancommodityj),12),12) * Round(Acres _{commodityj,22})), 12	Price Volatility Factor _{commodityj}	Internal		999999.99999999	None	Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit.
	", 12)),12) * Kouna (Acres _{commodityj,12)), 12}	log Mean _{commodityj} (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line the Whole Farm Unit.

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Yea Version Release Date	n: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules
	<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	[covIvI _{commodityj} * AY _{commodityj} * ProjPrice _{cc} j =	mmodityj * Revenue Protection Whole	Internal		9999999999,99999999	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.
	<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	all commodities	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999.99999999	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 Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
When Insurance Plan Code	e equals Revenue Protection, "02":								
Whole Farm Base Premium Rate	= Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None			
When Insurance Plan Code "03":	e equals Revenue Protection with Harvest Price Exclusion,								
Whole Farm Base Premium Rate	= Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None			
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	equals Whole Farm Unit, "WU":								
Premium Rate	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 Whole Farm including Prevented Planting), 8))	Premium Rate	Internal		9999999999,99999999	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.		
		Total Reported Acreage	Internal		99999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.		

	Exhibit Name: Prer Exhibit Number: P11- Record Name: Acre Record Code: P11				Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn Field	Record		0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas Field	Field	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
	<u>Calculations</u>	Name	Number	Number	Format	Rounding	Rules
Premium Rate	DOES NOT EQUAL Whole Farm Unit, "WU": MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor Additive Optional Rate Factor + Capped Revenue Add Or Factor)	+ Promium Rate	Internal		9999999999 .99999999	Round to 8 decimals.	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 Protectio Add On Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harves 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.

		•				ar: 2021 on: Approved te: 7/1/2020	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 9: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount						
		Preliminary Total Premium	Internal		99999999999	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.
		Total Premium Amount	P11	95	99999999999	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	9999999999	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	99999999999	Round to whole number.	

	Exhibit Numb	ne: Premium Calculation per: P11-1, Plan 01, 02, 03 ne: Acreage de: P11	Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> Rounding	Rules		
Cottonseed Endorsement (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 Calcul	lation		r	1		1			
		Modified Yield	Internal		99999999.99	Round to whole Number.			
Modified Yield	= Approved Yield * Option Conversion Factor	Approved Yield	P11	42	99999999.99	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		999999999.99	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		999999999.99	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	- Draigetad Drica * Drica Election Parsant	Price Election Amount	Internal		9999.9999	None	Cottonseed will equal the Projected Price from ADM regardless of Price Election Percent for Cotton Lint.		
Price Election Amount	= Projected Price * Price Election Percent	Projected Price	ADM		99999.9999				
		Price Election Percent	ICE		9.9999	None	Will always be 1.000 for Cottonseed.		
Premium Total Guarantee	Premium Guarantee Per Acre Amount * Price Election	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.			
Amount	Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None			
		Reported Acreage Page 4	0 of ^{Pj}	48	99999999.99	None	From Cotton P11 record.		

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Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules
Total Guarantee Amount =	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount Price Election Amount Reported Acreage	P11 Internal P11	103 48	99999999.99 9999.9999 99999.99	Round to 2 decimals. None None	From Cotton P11 record.
Premium Liability Amount =	= Premium Total Guarantee Amount * Insured Share Perce		Internal P11	43	99999999999	Round to whole number. None	Form Cotton D14 month
Liability Amount =	= Total Guarantee Amount * Insured Share Percent	Insured Share Percent Liability Amount	P11 P11	94	9.9999 9999999999	Round to whole number.	From Cotton P11 record.
		Insured Share Percent	P11	43	9.9999	None	From Cotton P11 record.
Section 11: Premium Rate	MIN(.999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		9999999999,99999999	Round to 8 decimals.	 To Determine the Premium Rate for the Cottonseed records: Use the Rate Yield as determined under normal procedures. Process the Rate Yield through section 3 of these procedures using the rating components for regular Cotton offer. Yield Exclusion, Yield Cup, or Quality Loss is elected, see section 24 for the current year bas premium rate calculation when the Effective Coverage Level exceeds the MAX ADM coverag level. Find the Unit Structure Discount Factor to be applied later from section 2 of these procedures for regular Cotton offer. Find the applicable Option Factors to be applied later from section 4 for regular Cotton offer. Sections 5, 6, 7 are not applicable for Cottonseed records.
		Multiplicative Optional Rate Adjustment Factor Additive Optional Rate	Internal		999999.9999		
		Adjustment Factor	Internal		999999.9999		

Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code 01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion			
Commodity Code 0011 Wheat 0015 Canola 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> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
ection 12: Total Premium Amount, Subsidy Amount, and Producer Premium Amount									
	Preliminary Total Premium	Internal		9999999999	Round to whole number.				
Preliminary Total Premium Liability Amount * Premium Rate * Experience Premium Factor * Premium Rate Surcharge Percent	Experience Factor	P11	47	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".			
	Premium Rate Surcharge Percent					Does not apply when option "YC" is elected. Se to 1.00.			
Preliminary Total Premium * Multiple Commodity	Total Premium Amount	P11	95	99999999999	Round to whole number.				
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	99999999999	Round to whole number.	If this record qualifies for Beginning Farmer an Rancher or Native Sod, see Section 18 for subsidy calculations.			
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".			
Producer Premium = Total Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P11	94	9999999999	Round to whole number.				
APH Yield Trend (Trend Adjustment Option 'TA'), Yield Cup (Option 'YC'), Quality Loss Option 'QL'), and Yield Exclusion (Option 'YE')						Trend Adjustment Option (TA), Yield Cup Optio (YC), Quality Loss Option (QL), and Yield Exclusion Option (YE) ONLY available in select counties for selected crops. See "white papers for examples.			
Section 13: Effective Coverage Level Calculation						·			
Vhen Commodity Code equals Dry Beans "0047" and Type Code equals Contract "62", (or Commodity Code equals Dry I	Peas "0067"	and Type	Code equals Spring Contra	ict "98":				
	Effective Coverage Level Percent	Internal		99.9999	Round to 2 decimals.				
	Coverage Level Percent	P14	34	9.9999	None				
Effective Coverage Level _ Coverage Level Percent * Round(Approved Yield * Contract Percent ⁼ Price,0) / Adjusted Yield	Approved Yield	P11	42	99999999.99	None	For APH Trend, Yield Cup, Quality Loss, and Yie Exclusion, the Approved Yield will be the great of the calculated Approved Yield and the Adjusted Yield.			
	Contract Price	P11	46	9999.9999	None				
	Adjusted Yield	P15	44	99999999.99	None				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 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		
For all others:									
		Effective Coverage Level Percent	Internal	24	99.9999	Rounded to 2 decimal places.			
Effective Coverage Level Percent	l = Coverage Level Percent * Approved Yield/Adjusted Yield	Coverage Level Percent Approved Yield	P14	34 42	9.9999 999999999999999	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.		
		Adjusted Yield	P15	44	99999999.99	None	For skip row commodities, the adjusted yield is the converted adjusted yield from the P15 record with skip row (yield conversion factor) applied.		

		•			Reinsurance Yea Versior Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules
Section 14: Rate Differenti							When Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield 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	n Code List contains Options "QL", "YE" or "YC":	Rate Differential Factor	Internal		9.999999999	Round to 9 decimal	
		Base Rate Differential Factor	ADM		9.999999999	places 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	(1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (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))		ADM		9.999999999	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 Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

	Exhibit Number: Record Name:	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	ion with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
(1+ (ROUND (MIN ((MAX (0.85,Effective Coverage	Lower Bound Rate Differential Factor	ADM		9.999999999	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.				
Rate Differential Factor (continued)	Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (Round(Base = Rate Differential Factor + (Upper Bound Rate Differential = Factor - Lower Bound Rate Differential Factor) * (Effective	Effective Coverage Level Percent	Internal		99.9999	None				
	Coverage 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 Percent. If 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			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
		Prior Year Rate Differential Factor Base Prior Year Rate Differential Factor	ADM		9.999999999 9.9999999999	Round to 9 decimal places. 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	Round(Base Prior Year Rate Differential Factor + (Upper 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		9.999999999	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.			

			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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	
	Lower Bound Prior Year Rate Differential Factor	ADM		9.999999999	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 Level falls between existing ADM Coverage Level sthen 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.		
	Round(Base Prior Year Rate Differential Factor + (Upper Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage	Effective Coverage Level	Internal		99.9999	None		
	Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Percent 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 Percent. If 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.	

Insurance Plan Code					Reinsurance Yea Version Release Date	n: Approved e: 7/1/2020	n with Harvest Price Exclusion 0075 Peanuts
<u>Commodity Code</u>	0015 Canola 0018 Rice	0041 Corn 0043 Popcorn			0051 Grain Sorghum 0067 Dry Peas		0075 Peahuts 0078 Sunflowers 0081 Soybeans 0091 Barley
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	Name	Number	Number	Format	Rounding	Rules
When Trend Adjustment O	ption "TA" is elected alone (excludes "YC" and "YE")		1	1			Ĩ
		Rate Differential Factor	Internal		9.999999999	Round to 9 decimal places	
		Base Rate Differential Factor	ADM		9.999999999	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 Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Upper Bound Rate Differential Factor	ADM		9.999999999	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		9.999999999	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 greate than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent Page 4	Internal 8 of 77		99.9999	None	

	Exhibit Number: Record Name:	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion			
Commodity Code	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> Rounding	Rules			
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)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit wit ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will b 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 greate than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.			

					Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
		Prior Year Rate Differential Factor	Internal		9.999999999	Round to 9 decimal places.	
		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 with ADM Coverage Level Differential, "A01040".
Prior Year Rate Differential Factor	Round(Base Prior Year Rate Differential Factor + (Upper 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		9.999999999	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.

	Exhibit Number: Record Name:	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion				
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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				
	Round(Base Prior Year Rate Differential Factor + (Upper	Lower Bound Prior Year Rate Differential Factor	ADM		9.999999999	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 Level falls between existing ADM Coverage Level falls between lif the Effective Coverage Level falls between existing ADM Coverage Level falls between existing ADM Coverage Level falls between 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.				
	Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage	Effective Coverage Level	Internal		99.9999	None					
	Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Percent 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 Percent. If 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.				

	E	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			fear: 2021 ion: Approved a te: 7/1/2020	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection			03 Revenue Protectio	on with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>		ield <u>Field</u> mber <u>Format</u>	<u>Field</u> Rounding	Rules
Section 15: Unit Residual	Factor					The lookup/interpolation/extrapolation procedure for 'Unit Residual Factor and Prior 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 Code	e is equal to Optional Unit, "OU", "UA", "UD", o	or Basic Unit, "BU", use the following calcula	ations for Unit Resi	idual Factor and Prior Year Ur	it 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 (Buy-up/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".
Unit Residual Factor	Round(Base Unit Residual Factor + (Upper Be Residual Factor - Lower Bound Unit Residual (Effective Coverage Level Percent - Floored E Coverage Level Percent) * 20, 3)	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 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				03 Revenue Protec	tion with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Format	<u>Field</u> Rounding	Rules			
		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	Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor - Lower Bound Unit Residual Factor) *	Effective Coverage Level Percent	Internal		99.9999	None				
Unit Residual Factor - Residual Factor - Lower Bound Unit Residual Factor) * (contintued) = (Effective Coverage 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 wi ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level Percent. If 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 great than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.				

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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 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".	
	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.	
		Effective Coverage Level Percent Page 5	Internal 4 of 77		99.9999	None		

	Exhibit Name: Premir Exhibit Number: P11-1, Record Name: Acreag Record Code: P11				2021 Approved 7/1/2020		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Prior Year Unit Residual Factor (continued)	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)	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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

		•			Reinsurance Yea Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Vhen Unit Structure Code	is equal to Enterprise Unit, 'EU' or 'EP', use the following calc	ulations for Enterprise Unit Res	dual Facto	r and Prior	Year Enterprise Unit Resid	dual Factor:	
		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
		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".
Enterprise Unit Residual Factor	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)	upper Bound Enterprise 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 I 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 great than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
		Lower Bound Enterprise 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.			
Enterprise Unit Residual Factor	Round(Base Enterprise Unit Residual Factor + (Upper Bound = Enterprise Unit Residual Factor - Lower Bound Enterprise	Effective Coverage Level Percent	Internal		99.9999	None				
(contintued)	Unit Residual Factor) * (Effective Coverage 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 Percent equals 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 Record Name	Exhibit Name: Premium Calculation hibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
		Prior Year 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			
	rior Year Enterprise Unit Residual Factor - Lower Bound Prior Year Enterprise Unit Residual Factor - Lower Bound Prior Year Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Base Enterprise Prior Year Unit Residual Factor	ADM		999.999	None	Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise 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 Enterprise Unit Residual Factor		Upper Bound Prior Year Enterprise 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.			

	Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
Prior Year Enterprise Unit	Round(Base Enterprise Prior Year Unit Residual Factor + (Upper Bound Prior Year Enterprise Unit Residual Factor -	Lower Bound Prior Year Enterprise 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.			
	- Lower Bound Prior Year Enterprise 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 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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.			

	Exhi Re	hibit Name: Premium Calculation bit Number: P11-1, Plan 01, 02, 03 cord Name: Acreage ecord Code: P11			Reinsurance Yea Versio Release Dat	n: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
When Unit Structure Code	is equal to Whole Farm Unit, 'WU', use the follow	ing calculations for Whole Farm Unit Resid	ual Factor and	d 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 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".
Whole Farm Unit Residual Factor	= Whole Farm Unit Residual Factor) * (Effective Co	Bound overage	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 b 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 greated than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

					Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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
	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 Residual Factor =	Bound Whole Farm Unit Residual Factor - Lower Bound • 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 Percent. If 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			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 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> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
		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	
	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".	

					Reinsurance Year: Version: Release Date:	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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
	Round(Base Whole Farm Prior Year Unit Residual Factor +	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 Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
	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)		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 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	

		-			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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
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)	 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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
Section 15: Unit Discount Ca	alculation						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.

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

		•			Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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
		Unit Structure Discount Factor	Internal		9.999999999	Round to 4 decimal	Capped at 1.0
		Base Coverage Level Percent Optional Unit Discount Factor	ADM		9.999999999	places. 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".
Unit Structure Discount Factor [–]	Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level Percent Optional = Unit Discount Factor - Lower Bound Coverage Level Percent Optional Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9.999999999	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 Level sthen 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 Optional Unit Discount Factor	ADM		9.999999999	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 Page 6:	Internal 5 of 77		99.9999	None	

		0			Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Unit Structure Discount Factor (continued)	Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level Percent Optional = Unit Discount Factor - Lower Bound Coverage Level Percent Optional 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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

					Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	Field	<u>Field</u>	
	Calculations	Name	Number	Number	<u>Format</u>	Rounding	Rules
When Unit Structure Code	is equal to Basic Unit, 'BU', use the following calculation for U	Unit Structure Discount Factor:	Internal		9.999999999	Round to 4 decimal places.	Capped at 1.0
		Base Coverage Level Percent Basic Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Basic Unit 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".
Unit Structure Discount Factor + (Upper Bound Coverage Level Percent Basic Unit Discount Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4	Upper Bound Coverage Level Percent Basic Unit Discount Factor	ADM		9.999999999	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 Basic 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.
		Effective Coverage Level Percent Page 6	Internal 7 of 77		99.9999	None	

	Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
Unit Structure Discount Factor (continued)	Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound 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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.		

Recc	bit Name: Premium Calculation t Number: P11-1, Plan 01, 02, 03 ord Name: Acreage ord Code: P11			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code 01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
0011 Wheat Commodity Code 0015 Canola 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>Field</u> lumber	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
When Unit Structure Code is equal to Enterprise Unit, 'EU' or 'EP', use the follo	wing calculation for Unit Structure Disco	unt Factor:				
	Unit Structure Discount Factor	Internal		9.999999999	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 Un Discount Factor + (Upper Bound Coverage Level Percent Unit Structure Discount Factor = Enterprise Unit Discount Factor - Lower Bound Cov Level Percent Enterprise Unit Discount Factor) * (E Coverage Level Percent - Floored Effective Covera Percent) * 20, 4)	Percent Discount Factor verage ffective	ADM		9.999999999	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 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 Record Name:	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
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)	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. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.		

		•				ar: 2021 on: Approved te: 7/1/2020	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
Downed Rice Endorsement Section 16: Liability Calcula							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.
		Premium Liability Amount	Internal		9999999999	Round to whole	
						number.	
Premium Liability Amount	_ Dollar Amount of Insurance * Reported Acreage * Insured	Dollar Amount of Insurance	ADM		99999	number. None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
Premium Liability Amount	= Dollar Amount of Insurance * Reported Acreage * Insured Share Percent * Price Election Percent	Dollar Amount of Insurance Reported Acreage	ADM P11	48	99999 99999999.99		Amount with insurance option = 'DC'.
Premium Liability Amount	=			48		None	Amount with insurance option = 'DC'. DRE insured share will always be 100% without
Premium Liability Amount	=	Reported Acreage	P11		99999999.99	None None	Amount with insurance option = 'DC'.
Premium Liability Amount	=	Reported Acreage Insured Share Percent	P11 P11		999999999.99 9.9999	None None None	Amount with insurance option = 'DC'. DRE insured share will always be 100% without regards to base Rice.
	Share Percent * Price Election Percent Dollar Amount of Insurance * Reported Acreage * Insured	Reported Acreage Insured Share Percent Price Election Percent	P11 P11 ICE	43	999999999.99 9.9999 9.9999	None None None None Round to whole	Amount with insurance option = 'DC'. DRE insured share will always be 100% without regards to base Rice.
Premium Liability Amount Liability Amount	Share Percent * Price Election Percent Dollar Amount of Insurance * Reported Acreage * Insured	Reported Acreage Insured Share Percent Price Election Percent Liability Amount	P11 P11 ICE P11	43	999999999.99 9.9999 9.9999 9999999999	None None None None Round to whole number.	Amount with insurance option = 'DC'. DRE insured share will always be 100% without regards to base Rice. From base Rice P14 record. Edit with ADM Price, "A00810", Fixed Coverage
	Share Percent * Price Election Percent Dollar Amount of Insurance * Reported Acreage * Insured	Reported Acreage Insured Share Percent Price Election Percent Liability Amount Dollar Amount of Insurance	P11 P11 ICE P11 ADM	43 94	99999999999999999999999999999999999999	None None None None Round to whole number. None	Amount with insurance option = 'DC'. DRE insured share will always be 100% without regards to base Rice. From base Rice P14 record. Edit with ADM Price, "A00810", Fixed Coverage

						n: 2021 n: Approved e: 7/1/2020	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
ection 17: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount	:					
Preliminary Total		Preliminary Total Premium	Internal		99999999999	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	99999999999	Round to whole number.	
Subsidy Amount =	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	93	9999999999	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". Will always be 38% for DRE.
Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	94	9999999999	Round to whole number.	
ection 18: Beginning Farme	er and Rancher (BFR), Veteran Farmer Rancher (VFR), Nati	ve Sod (NS) and Conservation Con	npliance (C	C) Subsidy	Calculations		
Base Subsidy Amount =	= Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		99999999999	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		9999999999	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		9999999999	Round to whole number	lf Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount i always 0.
CC Subsidy Reduction		CC Subsidy Reduction Percent	P11	76	9.9999	None	If Applicable; else 0.
Amount	Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Amount	P11	111	9999999999	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	9999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0.
Producer Premium - Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	94	9999999999	Round to whole number	

					Reinsurance Year Version Release Date	: Approved		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion	
Commodity Code	0011 Wheat0021 Cottonmodity Code0015 Canola0041 Corn0018 Rice0043 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	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
ction 19: Yield Cup, Yield	Exclusion, Quality Loss, and Trend APH Current Year Base Pro	emium Rate Calculations (only	use when t	ne Effective	e Coverage Level for the rea	cord exceeds the highe	st coverage level for the offer in the ADM)	
	_Round((Coverage Level Percent/Effective Coverage Level = Percent),10) * Premium Liability Amount	Unadjusted Liability Amount	Internal		9999999999	Round to whole number		
Unadjusted Liability		Coverage Level Percent	P14	34	9.9999	None		
Amount		Effective Coverage Level Percent	Internal		99.9999			
		Premium Liability Amount	Internal		9999999999	Round to whole number		
	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	Max Coverage Level Adjustment Factor	Internal		999999999.99999999	Round to 8 decimals.		
		Unadjusted Liability Amount	Internal		9999999999	Round to whole number		
		Current Year Base Rate	Internal		9999999999.99999	Round to 8 decimals.		
		Premium Liability Amount	Internal		9999999999	Round to whole number		
		Base Rate Differential Factor	ADM		9.999999999	None		
	Rate * Premium Liability Amount),8) + ROUND(ROUND(Base	Base Unit Residual Factor	ADM		999.999	None		
Max Coverage Level Adjustment Factor	Rate Differential Factor * Base Unit Residual Factor * Base Optional Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Base Optional Unit Structure Discount Factor	ADM		9.999999999	None	Base Optional Unit Structure Discount Facto equal to Optional Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less tha 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		9.999999999	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 tha 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 C (all acres are prevented planted) set to 1.00.	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> Rounding	Rules		
	When Unit Structure code is Enterprise Unit, "EU" or "EP": 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		9.999999999	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.		
Max Coverage Level Adjustment Factor (continued)		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".		
	When Unit Structure code is Whole Farm Unit "WU": 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 Whole Farm Unit Residual Factor * Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Unit Structure Discount Factor	Internal		9.99999999	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 Record Name	nibit Name: Premium Calculation hit Number: P11-1, Plan 01, 02, 03 cord Name: Acreage ecord Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 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> <u>Format</u>	<u>Field</u> Rounding	Rules		
	Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit Structure Discount Factor)	Marginal rate Adjustment Marginal Adjustment Rate Factor	Internal		9.99999999	Round to 8 decimals.			
		Max Coverage Level Adjustment Factor	Internal		999999999.99999999	Round to 8 decimals.			
		Rate Differential Factor	ADM		9.999999999	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		9.99999999	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" or "EP": 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 Structure Code equal to Enterprise Unit, 'EU' or 'EP'.		
	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 Exclusion) where Unit Structure Code equal to Whole Farm Unit, 'WU'.		

					Reinsurance Year Versior Release Date		
insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	on with Harvest Price Exclusion
Commodity Code	0015 Canola	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
·,		Current Year Base Premium Rate	Internal	1	9999999999.99999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":		ADM		9.999999999	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).
	Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	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'.
Current Year Base Premium Rate		Marginal Rate Adjustment Factor	Internal		9999999999.99999999	Round to 8 decimals.	
	=IRound(Current Year Base Rate * Rate Differential 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 Structure Code equal to Enterprise Unit, 'EU' o 'EP'.
	=IRound(Current Year Base Rate * Rate Differential 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), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit, 'W

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2021 Version: Approved Release Date: 7/1/2020					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection		n with Harvest Price Exclusion					
Commodity Code	0011 Wheat 0015 Canola 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>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
Section 20: Yield Cup, Yiel the ADM).	d Exclusion, Quality Loss, and Trend APH for CottonseedCurr	rent Year Base Premium Rate Ca	alculations	(only use v	vhen the Effective Coverage	Level for the record e	xceeds the highest coverage level for the offer in		
		Current Year Base Premium Rate	Internal		9999999999.99999999	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		9.999999999	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 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), "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		9999999999.99999999	Round to 8 decimals.	Copy value over from the base lint line.		
	When Unit Structure Code is is Enterprise Unit, "EU" or "EP": 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' or 'EP'.		