					Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	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>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Section 1: Liability Calculat							
		Premium Guarantee Per Acre Amount	Internal		99999999.99	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 Amount	= Approved Yield * Coverage Level Percent	Approved Yield	P11	42	999999999999	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
		Coverage Level Percent	P14	34	9.9999	None	For APH Trend and Yield Exclusion the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.
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		99999999.99	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".
Price Election Amount	= Projected Price (or Contract Price) * Price Election Percent	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 [S9.99]. I fresult is based on Contract Price for specialty type Corn, Soybeans or Barley; round to nearest one hundredth cent (S9.9999).	

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Contract Float Color Col Notes Color Service Color Ser					Reinsurance Year: Version: Release Date:	Approved		
### Celection Amount Price Election Amount Price Election Percent First First								
OUIS Rice OUIS Propose Read Name OUIS Propose OUIS Springer OUIS Springe	0011 Wheat	0021 Cotton						
Price Dection Amount Price Dection Price In Price In Price Dection Price In Internal Interna	Commodity Code 0015 Canola 0018 Rice					0081 Soybeans		
Price Biction Amount	Calculations		Record Number				<u>Rules</u>	
Price Election Amount (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Projected Price (ar Contract Price) Price Election Percent (continued) Price Elect	Price Election Amount = Projected Price (or Contract Price) * Price Election Percent (continued)	Price Election Amount	Internal		9999.9999	Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [59.999]. If result is based on Contract Price for specialty type Canola; round to nearest one hundredth cent (59.9999). When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas, "0067" round to nearest one-hundredth cent		
Price Election Amount (continued) Price Election Amount (continued) Price Election Percent Premium Total Guarantee Amount Amount Price Election Premium Total Guarantee Amount Reported Acreage Premium Guarantee Per Acre Amount Price Election Percent Price Election Percent Price Election Percent Premium Total Guarantee Premium Guarantee Per Acre Amount Price Election Percent Mount Price Election Percent Premium Total Guarantee Amount Reported Acreage Premium Guarantee Per Acre Amount Price Election Price Election Amount Price Election Amount Price Election Percent Price Election Percent Price Election Percent Price Election Percent Premium Total Guarantee Amount Reported Acreage Premium Guarantee Per Acre Amount Price Election Price Election Percent Price Electio		Projected Price	ADM		99999.9999		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,	
Price Election Percent Price Election Percent Price Election Percent Price Election Percent Premium Total Guarantee Amount Premium Total Guarantee Amount Premium Guarantee Per Acre Amount * Price Election Amount Price Election Amount Price Election Amount Internal Price Election Amount		Contract Price	P11	46	9999.9999	None	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	
Premium Total Guarantee Premium Guarantee Per Acre Amount * Price Election Amount Internal 999999999999999999999999999999999999			ICE		9.9999	None	Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election	
Amount * Reported Acreage Price Election Amount internal 999999999 None Reported Acreage must equal the sum of all	Premium Total Guarantee Premium Guarantee Per Acre Amount * Disc Slockion	Amount						
Reported Acreage P11 46 39999999.99 None Land, P27, Reported Acreage.		Price Election Amount Reported Acreage	Internal P11	48	9999.9999	None None		

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	Field Rounding	Rules			
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.				
Total Guarantee Amount =	Reported Acreage	Price Election Amount Reported Acreage	Internal P11	48	9999.999	None None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.			
remium Liability Amount =	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount Insured Share Percent	Internal P11	43	999999999 9.9999	None	and, and			
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.				
Elability Amount -	- Total Guarantee Amount - insured share referent	Insured Share Percent	P11	43	9.9999	None				
ection 2: Unit Discount Cal	culation						The appropriate discount factor should be looked up and applied.			
When commodities are setu	up in the unit discount table for lookups based solely on acre	5.								
-	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		9.9999999	None				
Revenue Lookup	Unit Structure Discount Factor									
Adjustment Factor	When the Unit Structure Code is Whole Farm Unit "WU":				0.0000000		Capped at 1.0			
=	Unit Structure Discount Factor for Enterprise Unit "EU"	Unit Structure Discount Factor	Internal		9.99999999	None	From below for Unit Structures "OU, UA, UE BU, EU or EP".			

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			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules	
=	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.9999999	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	ADM		9,999	None	Edit with ADAA Heit Disservet A01000	
-	Basic Unit Discount Factor	Basic Offic Discount Factor	ADIVI		9.999	None	Edit with ADM Unit Discount, "A01090".	
Unit Structure Discount Factor	When the Unit Structure Code is Enterprise Unit, "EU" or "gp": 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 tooth fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which we 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 U. Discount, "A01090". Unit is not eligible as an enterprise unit if summed planted acres are it than 20 acres or 20% of insured crop acreage.	

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		-	Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019							
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> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
/hen commodities are set	up in the unit discount table for lookups based on acres <u>and</u> o	<u> </u>	1				-			
	When the Unit Structure Code is Optional Unit, "OU","UA", or "UD":	Revenue Lookup Adjustment Factor	Internal		9.9999999	None				
	Unit Structure Discount Factor	Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 From below for Unit Structure "OU", "UA", 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 65' Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quantit 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 655 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 APM Units of Quantity and less than or equal to APM Units Output (1908) and 1908 of 65% Coverage Level.			

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			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0013 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	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal	· · · · · · · · · · · · · · · · · · ·	9.9999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
-	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)and "YE" (Yield Exclusion).		
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 up the sum of the reported acres which were prevented from planting for the unit being greater than or equal to the Area Low Quar and less than or equal to Area High Quantit fields contained on the ADM Unit Discount, "A01090" for Coverage Level. See Section 19 for Option Code "TA" (Trenc Adjustment) and "YE" (Yield Exclusion).		
Unit Structure Discount Factor = (continued)	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" by Coverage Level. Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includ both fall and spring planted acreage. Enterprise Unit Discount Factor is continged upon the sum of the reported acres which not prevented from planting for all applicat units being greater than or equal to the Are Low Quantity and less than or equal to Are High Quantity fields contained on the ADM Discount, "A01090" for Coverage Level. Un not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% insured crop acreage. See Section 19 for Option Code "TA" (Trend		

Adjustment) and "YE" (Yield Exclusion).

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	Exhib Rec	ibit Name: Premium Calculation it Number: P11-1, Plan 01, 02, 03 ord Name: Acreage cord Code: P11			Reinsurance Year Version Release Date	: Approved			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion						
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0041 Corn 0051 Grain Sorghum 0 0043 Popcorn 0067 Dry Peas 0				0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<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	9999999999999	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".		
		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 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 Yield Ratio ^ Prior Year Exponent Value	Prior Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.			
		Prior Year Exponent Value	ADM		599,999	None	Edit with ADM Base Rate, "A01010".		

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

Reinsurance Year: 2017

Version: Approved

	Record Name: Record Code:	-			version: Release Date:	Approved 2/7/2019	
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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
	When Rate Method Code is Fixed, "F":	Current Year Base Rate	Internal		999999999999999999999999999999999999999	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		9999.9999999	None	
=	Mate + hxed Nate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
=		Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
		Prior Year Base Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
=	When Rate Method Code is Fixed, "F": 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		9999.9999999	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".
	When Unit Structure Code is equal to Optional Unit, "OU",	Current Year Base Premium Rate	Internal		999999999999999	Round to 8 decimals.	If Option Code "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.
=	"UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor *	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) 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) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "'OU", "UA", "UD", or Basic Unit, '8U'.
=	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) and "YE" (Yield Exclusion) 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) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit, WU'.

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	Exhibit Name: Exhibit Number: Record Name: Record Code:		Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
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	41 Corn 0051 Grain Sorghum				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":	Prior Year Base Premium Rate	Internal		999999999999999999999999999999999999999	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		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).	
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) and "YE" (Yield Exclusion) 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) and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.	
= Round(Pri	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) and "YE" (Yield Exclusion) 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	94	999999999999999999999999999999999999999	Round to 8 decimals.		
Revenue Lookup Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.9999)	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.		

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			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
ction 4: Optional Coverag	ge (Additive "A" and Multiplicative "M")						If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9.		
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	Tremain rate rajustrienty see section s.		
Additive Optional Rate	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".		
Adjustment Factor	= ∑ Option Rate * Rate Differential Factor	Rate Differential Factor	ADM		9.9999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
Multiplicative Optional	When Rate Method Code is Multiplicative, "M":	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.			
Rate Adjustment Factor	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".		
iction 5: Revenue Coverag	ge Add on Rates (Applicable only for Plans 02 and 03)						It is recommended that other than hard cod for specific type and practice codes which we eventually change when the new key struct is adopted, that a condition be put in place to 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 Rate, which contains a constraint that the act on rate be at least 1% greater than the base Premium Rate.		
		Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.			
Lookup Rate	= Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Revenue Lookup Rate	Internal		99999999999999	Round to 4 decimals.	From Section 3.		
		Revenue Lookup Adjustment	Internal		9.9999999	None	From Section 2.		

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		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11	Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
		Adjusted Mean Quantity (AdjMean)	Internal		999999.9999999	Round to 8 decimals.			
Adjusted Mean Quantity	r = Approved Yield * Mean Quantity / 100	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend 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 the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
		Mean Quantity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate.		
		Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		9999999999999999	Round to 8 decimals.	, , , , , , , , , , , , , , , , , , ,		
Adjusted Standard Deviation Quantity	i = Approved Yield * Standard Deviation Quan	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend 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		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" i the Standard Deviation Quantity using Lookup		

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		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11	Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules	
		log Mean Quantity (LnMean)	Internal		999999.9999999	Round to 8 decimals.		
LnMean	= Ln(Projected Price or Contract Price) - = (Price Volatility Factor) ² / 2	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".	
	(Price Volatility Factor)* / 2	Contract Price	P11	46	9999.9999	None	Contract price as addressed in Section 1, capp with Max Contract Price from ADM.	
		Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".	
rield Draw Quantity _{Sequence} Number	For Sequence Number 1 to 500 = Yield Draw Quantity	Yield Draw Quantity	ADM		599.99999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Off "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		599.99999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Off "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	

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		-			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	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> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	
	∑ Round(MAX(0, AY * covlvl - Round(MAX(0, Yieldi *	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend 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 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) and "YE" (Vield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE (Yield Exclusion).
		Yield Draw Quantity _i (Yield _i)	ADM		599.99999999	None	,
		Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		999999999.9999999999	Round to 12 decimals.	
Simulated Revenue Protection Losses Quantity	500 The Round(MAX(0, AY * cov/vl * Round(MAX(ProjPrice, 11	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend 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 the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
	$Round(\text{MIN}(2 * ProjPrice, Round(e^{Price, * * Price Volatility} factor + t.nMean), 12)), 12))), 12)(12)(12)(12)(12)(12)(12)(12)(12)(12)($	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE (Yield Exclusion).
		Yield Draw Quantity _i (Yield _i)	ADM		\$99.99999999	None	
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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		-			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	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> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		999999999999999999	Round to 12 decimals.	
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity	S00 SRound(MAX(0, AY * covivl * ProjPrice - (Round(MAX(0, 2) rield, * AdjStdDev + AdjMean),12) * Round(MIN(2 * ProjPrice, Round(e[price; * Price Volatility Factor + LoMean), 12)),12))),12)	Approved Yield (AY)	P11	42	9999999.99	None	For APH Trend 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 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) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) 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.

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019				
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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
Simulated Yield Protection Base Premium Rate	= (Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.9999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) 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		999999.9999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) 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 Exclusion = Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.		
Protection Premium Add	MAX(Simulated Revenue Protection Base Premium Rate - = Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1½ 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		999999.9999999	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.		

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	Exhibit Name: Premium Calculation Exhibit Number P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019							
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion					
Commodity Code	0011 Wheat 0021 Cotton ty Code 0015 Canola 0041 Corn 0018 Rice 0043 Popcorn				0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley					
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules					
	nue Capping (Applicable only for Plans 02 and 03) tion will not apply if record has a Written Agreer					Unit Level Base Premi where applicable. Th Premium Rate and Re Revenue Add On Rate that will change from this we are fixing a pc changed and applying if there is NOT a corre ADM, "AD1110", then Furthermore, since co Revenue Assurance (f performed for those e applicable then this w Percent. See next stal When TA and YE Opti	culation the 2010 Revenue Assurance Optional um Rate for coverage level percents 65 thru 8: en it is used in conjunction with the Base evenue Add On Rates to compute capped s. This table is set up such that the only value year to year is the Commodity Year. By doing intrivere the premium calculation method w ran exponential capping over time. essponding row in the Historical Revenue Cappin this calculation does not need to be performe werage level percents 50, 55, 60 did not exist for IA) historically capping does not need to be coverage level percents as well. If TA is rill be based on the TA Effective Coverage Leve ement. on is selected, this section does not apply whe e Level is less than 65%.					
		Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.					
Capping Yield Ratio	e = Rate Yield / Capping Reference Yield	Rate Yield	P15	35	9999999.99	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	9999999.99	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,					

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		-			Reinsurance Year: Version: Release Date:	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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Control Process Marketine		Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Capping Rate Multiplier =	Capping Yield Ratio ^Capping Exponent Value	Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Rate	Prior Capping Yield Ratio APrior Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.9999999	Round to 8 decimals.	
Multiplier =	Prior Capping Yield Ratio Prior Capping Exponent Value	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		999999.9999999	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		999999.9999999	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".

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		-			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 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
		Field	Record	<u>Field</u>	Field	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	Rules
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.	
	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) and "YE" (Vield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Vield Exclusion).
"UA", "UD", or Basic Unit, "BU": [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 > Beta 6 Factor * Price Volatility Factor > Beta 7 Factor * Price Volatility Factor > Beta 7 Factor * Price Volatility Factor > 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 * 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		9999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.		
	Beta 13 Factor * Coverage Level Percent * Price Volatility Factor +	Beta O Factor - Beta 14 Factor	ADM		S99.99999999	None	Edit with ADM Historical Revenue Capping, "A01110".
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
	* 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) 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) and "YE" (Yield Exclusion).

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

Reinsurance Year: 2017

Version: Approved

	Record Name: Record Code:				Version Release Date	Approved : 2/7/2019	
Insurance Plan Code	0011 Wheat	02 Revenue Protection 0021 Cotton			0047 Dry Beans	03 Revenue Protectio	n with Harvest Price Exclusion 0075 Peanuts
Commodity Code		0041 Corn 0043 Popcorn	0051 Grain Sorghum 0067 Dry Peas				0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	When Unit Structure Code 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) and "YE" (Yield Exclusion).
Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate + 2 - Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent *2 - Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)*2 + Beta 6 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor + 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 * Toverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Toverage Level Percent * Price Volatility Factor + Beta 15 Factor * Coverage Level Percent * Price Volatility Factor +	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999999 9999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
	Beta 14 Factor * (Approved Yield / Capping Reference Yield)	Beta O Factor - Beta 14 Factor	ADM		S99.99999999	None	Edit with ADM Historical Revenue Capping, "A01110".
	* Price Volatility Factor] * Unit Residual Factor X 1.1	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) 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) and "YE" (Yield Exclusion).
Capped Revenue Protection Add on Rate	MIN(Base Premium Rate + Preliminary Revenue Protection Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping Year) - Base	Capped Revenue Protection Add on Rate	Internal		9999999999999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insuran Plan Code Revenue Protection, "02" or Reven Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue ad on factors.
	Premium Rate	Base Premium Rate	P11	94	999999.9999999	None	
		Commodity Year Capping Year	P14 ADM	10	CCYY	None None	Edit with ADM Historical Revenue Capping, "A01110".
Capped Revenue Protection with Harvest Price Exclusion Add on	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2*(Commodity Year - Capping Year))	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999999999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insuran Plan Code Revenue Protection, "02" or Reven Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 3 to calculate the Capped Revenue ad on factors.
Rate	Base Premium Rate	Base Premium Rate	P11	94	999999.9999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".

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		*			Reinsurance Year: Version: Release Date:	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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
ection 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 Units for commodity/plans offering Whole Farm Units. Malting Barley Coverage is NOT applicable for Whole Farm Units.
		Lookup Rate	Internal		9999999999999999	Round to 4 decimals.	
Lookup Rate	= Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Revenue Lookup Rate	Internal		999999999999999	Round to 4 decimals.	From Section 3.
		Revenue Lookup Adjustment Factor	Internal		9.9999999	None	From Section 2.
Mean Quantity commodity		Mean Quantity commodityj	ADM		999.99999999	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 _{commodityj}	Internal		9.9999	None	
		Base Rate _{commodityj}	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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> Name	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
Standard Deviation Quantity _{commodityj}	Standard Deviation Quantity _{commodity} WHERE Lookup Rate = commodity = Base Rate _{commodity}	Standard Deviation Quantity commodity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate			
		Lookup Rate commodityj	Internal		9.9999	None				
		Base Rate commodityj	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".			
		Adjusted Mean Quantity	Internal		999999.99999999	Round to 8 decimals.				
Adjusted Mean Quantity commodity	= Approved Yield _{commodity} * Mean Quantity _{commodity} / 100	Approved Yield commodkyj	P11	42	99999999999	None	For APH Trend 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		999999999.9999999	Round to 8 decimals.				
Adjusted Standard Deviation Quantity commodityj	Approved Yield _{commodity} * Standard Deviation Quantity _{commodity} / 100	Approved Yield commodkyj	P11	42	9999999.99	None	For APH Trend 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.			

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Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11					Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019				
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>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
		log Mean _{commodityj} (LnMean)	Internal		999999.9999999	Round to 8 decimals.			
LnMean _{commodityj}	= In(Projected Price or Contract Price _{commodity)}) – (Price Volatility Factor _{commodity}) 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		\$99.99999999	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 I din the ADM Beta, "A01020" for every distinct Beta I din the ADM Insurance Offer, "A00030".		
Price Draw Quantity commodityj Sequence Number	= Price Draw Quantity _{commodity}	Price Draw Quantity	ADM		\$99.99999999	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 I din the ADM Beta, "A01020" for every distinct Beta I din the ADM Insurance Offer, "A00030".		

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					Reinsurance Year Version Release Date	: Approved					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion								
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	rain Sorghum 0078 Sunflowers					
	Calculations	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	Field Rounding	Rules				
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.				
		Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) an "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "Y (Yield Exclusion).				
	Stoom all Commodities ∑ Round(MAX(0,∑ Aycommodity) * jr Acres _{commodityj} * covIvI _{commodityj} * Round(MAX(ProjPrice _{commodityj} , Round(MIN(2 * ProjPrice _{commodityj} , Round(e Pricecommodityj * ProjPrice _{commodityj} , Round(e)	Approved Yield _{commodityj} (AY)	P11	42	9999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend 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 the converted approved yield from the P15 record with skip row (yield conversion factor applied.				
Simulated Revenue rotection Losses Whole Farm	Volatility Factor-commodityj + InMeancommodityj ,12)),12)),12),12 - all Commodities ∑ Round(MAX(0,Round(Yield_commodityi *	Reported Acreage _{commodityj}	P11	48	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acre report line in the Whole Farm Unit.				
	j= AdjStdDev _{commodityj} + AdjMean _{commodityj,12})),12} * Round(MIN(2 * ProjPrice _{commodityj} . Round(e ^{[Pricecommodityj] * Price Volatility Factorcommodityj +}	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.				
	LnMeancommodityj),12)),12) *	Price Draw Quanity _{commodityj} i (Price)	ADM		\$99.99999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.				
	Round(Acres _{commodityj,12})), 12)	Price Volatility Factor _{commodityj}	Internal		999999.9999999	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 repo line in the Whole Farm Unit.				
		Yield Draw Quantity _{commodityj} i (Yield)	ADM		S99.99999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.				
		Adjusted Standard Deviation	Internal		9999999999999999	None	Adjusted Standard Deviation Quantity for ea Commodity/Acreage report line in the Whol				

Internal

999999.99999999

Quantity_{commodityj} (AdjStnDev)

Quantity_{commodityj} (AdjMean)

Adjusted Mean

Commodity/Acreage report line in the Whole

Adjusted Mean Quantity for each

Farm Unit.

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		-			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	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
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	Field Rounding	Rules
		Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		999999999999999999999	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 _{commodibj} (covlvl)	<u>P14</u>	<u>34</u>	9.9999	<u>None</u>	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective. Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
Simulated Revenue	S00 all commodities Transfer in 1 Street i	Approved Yield_commoding (AY)	<u>P11</u>	<u>42</u>	999999999999999999999999999999999999999	<u>None</u>	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield.
Protection Harvest Price Excluded Losses Whole Farm	= \(\sum \text{Round(MAX(0, Round(Yield_{commodity;i} * \) \) \\ \frac{1}{2} \\ \text{AdjStdDev}_{commodity; + AdjMean_{commodity; 12}),12} * \\ \end{adjStdDev}						For skip row commodities, the approved yield the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Round(MIN(2 * ProjPrice _{rommodityi} . Round(e ^{(Price} commodityi * Price Volatility Factorcommodityj + LnMeancommodityi),12)),12) * Round(Acres _{rommodityi} ,12)), 12)	Reported Acreage _{rommodityj} (Acres)	<u>P11</u>	<u>48</u>	999999.99	<u>None</u>	Reported Acreage must equal the sum of all Land, P27. Reported Acreage. Reported Acreage for each Commodity/Acreagreport line in the Whole Farm Unit.
		Projected Price or Contract Price-commoday (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 _{rommodityj} i (Yield)	ADM		<u>\$99.99999999</u>	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

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		-			Reinsurance Year: Version: Release Date:	Approved			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection			03 Revenue Protection 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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
		Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		9999999999999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (continued)	500 all commodities Σ Round(MAX (0, ΣcoVIVI commodity)* i=1 j= AY commodityi * ProjPrice commodityi * AcreScommodityi) - all commodities Σ Round(MAX(0, Round(Yield commodityi) * = j= AdjStdDev_commodityi + AdjMean_commodityi, 12),12) * Round(MIN(2 * ProjPrice commodityi) + Round(e ^[Pricecommodityi] * Price Volatility Factorommodityi + LnMeancommodityi], 12), 12) * Round(Acres_commodityi], 12), 12)	Adjusted Mean Quantity _{commodby} (AdjMean)	Internal		999999,99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
	Round(ACIES _{commodityj} ,12]], 12]	Price Draw Quanity _{commodityj} i (Price)	ADM		S99.99999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.		
		Price Volatility Factor _{commodityj}	Internal		999999.9999999	None	Price Volatility Factor for each Commodity/Acreage report line in the Whole Farm Unit.		
		log Mean _{commodityj} (LnMean)	Internal		999999.9999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.		
	<u>SimRPLossesWF</u>	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
Revenue Protection Whole Farm Rate	all commodities \[\(\(\text{COVM} \\ \) \ \(\text{Commodity} \) * AY_{commodity} * ProjPrice_{commodity} * \) =	Revenue Protection Whole Farm Rate	Internal		9999999999999999	Round to 8 decimals.			
	ACFES _{commodity})	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 roort line in the Whole Earth.		

report line in the Whole Farm Unit.

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			I-1, Plan 01, 02, 03 Reinsurance Year: 2017 eage Version: 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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
	<u>SimRPhpeLossesWF</u>	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).			
Revenue Protection with Harvest Price Exclusion = Whole Farm Rate	all commodities [CCOVIVI _{commodity}] * AY _{commodity}] * ProjPrice _{commodity}] * j=	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999999999	Round to 8 decimals.				
	ACTeS _{commodity})	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.			
	equals Revenue Protection, "02": Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		999999999.9999999	None				
"03":	equals Revenue Protection with Harvest Price Exclusion, Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		999999999999999	None				
Section 8: Premium Rate	- ammate	note					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 e Premium Rate =	quals Whole Farm Unit, "WU": MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting), 8))	Premium Rate	Internal		9999999999999999	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.			
	J	Total Reported Acreage	Internal		9999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.			

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019				
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	Record	Field	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	Field	0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley	
	<u>Calculations</u>	Name	Number	Number	Format	Rounding	Rules	
When Unit Structure Code Premium Rate	MIN(.999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		999999999 5999999	Round to 8 decimals.	Set Capped Revenue Add On Factor as follows: If Insurance Plan Code equals 01, Capped Revenue Add On Factor will equal zero. If Unit Structure Code does not equal Whole Farm (WU), set Capped Revenue Add On Factor as follows: If Section 6 is applicable, Capped Revenue Add On Factor will equal Capped Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or 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.	

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	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 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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
Section 9: Total Premium A	Amount, Subsidy Amount, and Producer Premium Amount							
	Premium Liability Amount * Premium Rate * Experience = Factor * Premium Surcharge Percent * Total Premium Multiplicative Optional Rate Adjustment Factor	Preliminary Total Premium	Internal		999999999	Round to whole number.		
		Experience Factor	P11	47	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".	
Preliminary Total Premium		Premium Surcharge Percent	Internal				Use when the Approved Yield Had a Cup or Surcharge applied.	
		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	92	999999999	Round to whole number.		
Total Premium Amount	Preliminary Total Premium * Multiple Commodity = Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.	
Subsidy Amount :	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	90	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 for subsidy calculations.	
	•	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	93	999999999	Round to whole number.		

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
tonseed Endorsement							Information (Approved Vield, Reported Acres Insured Share Percent) will be obtained from Cotton P11 record and Rate Yield from P15 record associated with the Cottonseed recor CAT does not apply to Plan OI Cottonseed. L Structure Code 'WU' does not apply to Cottonseed.			
ion 10: Liability Calcu	lation	1	1	_		Round to whole				
		Modified Yield	Internal		99999999.99	Number.				
Modified Yield	Modified Yield = Approved Yield * Option Conversion Factor	Approved Yield	P11	42	9999999.99	None	From Cotton P11 record. For skip row cotton, the approved yield is the converted approved yield from the P15 recor with skip row (yield conversion factor) applie			
		Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".			
remium Guarantee Per Acre Amount	= Modified Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999999	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		Guarantee Adjustment Factor	P11	69	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".			
Price Election Amount	= Projected Price * Price Election Percent	Price Election Amount	Internal		9999.9999	None	Cottonseed will equal the Projected Price fro ADM regardless of Price Election Percent for Cotton Lint.			
		Projected Price	ADM		99999.9999					
		Price Election Percent	ICE		9.9999	None	Will always be 1.000 for Cottonseed.			
remium 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				
	Amount Reported Adreage	Roported Acrosso	D11	40	00000000		From Cotton R11 record			

Internal P11

9999.9999 99999999.99

From Cotton P11 record.

Reported Acreage

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019						
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	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>				
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.					
Total Guarantee Amount =	Reported Acreage	Price Election Amount	Internal		9999,9999	None					
	.,	Reported Acreage	P11	48	999999.99	None	From Cotton P11 record.				
Premium Liability Amount = Pr	Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole number.					
		Insured Share Percent	P11	43	9.9999	None	From Cotton P11 record.				
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	90	999999999	Round to whole number.					
		Insured Share Percent	P11	43	9.9999	None	From Cotton P11 record.				
Section 11: Premium Rate											
Premium Rate	MIN(,999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additve Optional Rate Factor)	Premium Rate Multiplicative Optional Rate	Internal		999999999 3999999	Round to 8 decimals.	To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 3 of these procedures using the rating components for regular Cotton offer. If Yield Exclusion is elected, see section 24 for the current year base premium rate calculation when the Effective Coverage Level exceeds the MAX ADM coverage level. 3) Find the Unit Structure Discount Factor to be applied later from section 2 of these procedures for regular Cotton offer. 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton offer. 5) Sections 5, 6, 7 are not applicable for Cottonseed records.				
		Adjustment Factor Additive Optional Rate	Internal		999999.9999						

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			Plan 01, 02, 03 Reinsurance Year: 2017							
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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
tion 12: Total Premium	n Amount, Subsidy Amount, and Producer Premium Amount									
		Preliminary Total Premium	Internal		999999999	Round to whole number.				
Preliminary Total Premium	= Premium Liability Amount * Premium Rate * Experience 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								
Total Premium Amount	Preliminary Total Premium * Multiple Commodity	Total Premium Amount	P11	92	999999999	Round to whole number.				
- Adjustment Factor	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	90	999999999	Round to whole number.	If this record qualifies for Beginning Farmer : 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	93	999999999	Round to whole number.				
l Yield Trend (Trend Ad	ijustment Option 'TA') and Yield Exclusion (Option 'YE')						Trend Adjustment Option (TA) and Yield Exclusion Option (YE) ONLY available in select counties for selected crops. See "white paper for examples.			
tion 13: Effective Cove	rage Level Calculation									
_		Effective Coverage Level Percent	Internal		99.9999	Rounded to 2 decimal places.				
		Coverage Level Percent	P14	34	9.9999	None				
ffective Coverage Level Percent	= Coverage Level Percent * Approved Yield/Adjusted Yield	Approved Yield	P11	42	9999999.99	None	For APH Trend 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 yie			
. Create							the converted approved yield from the P15 record with skip row (yield conversion facto applied. For skip row commodities, the adjusted yiel			
		Adjusted Yield	P15	44	9999999.99	None	the converted adjusted yield from the P15 record with skip row (yield conversion facto			

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Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Reinsurance Year: 2017 Record Name: Acreage Version: Approved Record Code: P11 Release Date: 2/7/2019 03 Revenue Protection with Harvest Price Exclusion Insurance Plan Code 01 Yield Protection 02 Revenue Protection 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts Commodity Code 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Record Field Field Calculations Rules Format When Trend Adjustment Option (TA) was Section 14: Rate Differential Factor chosen and yield reflects a trend or when Yield Exclusion Option "YE" was chosen. When Yield Exclusion Option "YE" is elected or when Options "YE" and "TA" are elected togethe Round to 9 decimal Rate Differential Factor Interna 9.999999999 Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Base Rate Differential Factor ADM 9 99999999 Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". (1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1)3 ,7)) * 0.05) * (Round(Base Based on the 'upper bound' Coverage Level. Rate Differential Factor + (Upper Bound Rate Differential Rate Differential Factor = Factor - Lower Bound Rate Differential Factor) * (Effective Edit with ADM Coverage Level Differential, Coverage Level Percent - Floored Effective Coverage Level "A01040". Percent) * 20, 9)) If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Upper Bound Rate Differential ADM 9.999999999 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. Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. Lower Bound Rate Differential If the Effective Coverage Level Percent falls 9.999999999 None Factor 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. (1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1)3 ,7)) * 0.05) * (Round(Base **Rate Differential Factor** Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Interna 99.9999 Coverage Level Percent - Floored Effective Coverage Level Percent Percent) * 20, 9)) Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. loored Effective Coverage If the Effective Coverage Level Percent falls 99,9999 Interna Level Percent 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.

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
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> Name	Record Number	Field Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
		Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.			
		Base Prior Year Rate Differential Factor	ADM		9.99999999	None	Base Prior Year Rate Differential Factor is equ to Prior Year Rate Differential for Minimum ol 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		9.9999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an exist ADM Coverage Level then this will be based or the Effective Coverage Level. If the Effective Coverage Level, if the Effective Coverage Level shen 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 be based on the highest ADM Coverage Level.		

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
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> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	Field Rounding	Rules		
	Round(Base Prior Year Rate Differential Factor + (Upper	Lower Bound Prior Year Rate Differential Factor	ADM		9,9999999	None	Based on the 'lower bound' Coverage Level. I with ADM Coverage Level Differential, "AD1040". If the Effective Coverage Level equals an exist ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this be based on the second highest ADM Coverage Level.		
Prior Year Rate	Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage	Effective Coverage Level	Internal		99.9999	None			
		Percent Floored Effective Coverage Level Percent	Internal		99,9999	None	Based on the 'floored' Coverage Level. Edit w ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then will be the lower ADM Coverage Level. If the Effective Coverage Level fent this than the maximum ADM Coverage Level. this will be the highest ADM Coverage Level.		

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					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 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	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Vhen Trend Adjustment C	Option "TA" is elected alone (excludes "YE")	•		•		•	•
	, ,	Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places	
		Base Rate Differential Factor	ADM		9.99999999	None	Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
		Upper Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level, If the Effective Coverage Level sales 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.
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)	Lower Bound Rate Differential Factor	ADM		9.9999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "AD1040". 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 bishest ADM.
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99,9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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					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 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	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.	Base Prior Year Rate Differential Factor is equal
		Base Prior Year Rate Differential Factor	ADM		9.99999999	None	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		9.9999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existin 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 higher ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Exhibit Numb		e: Premium Calculation er: P11-1, Plan 01, 02, 03 e: Acreage e: P11			Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	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> Format	<u>Field</u> Rounding	Rules
Calculations Round(Base Prior Year Rate Differential Factor + (Upper	Lower Bound Prior Year Rate Differential Factor	ADM		9,9999999	None	Based on the 'lower bound' Coverage Level. Ect with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existir 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 w be based on the second highest ADM Coverage Level.	
Differential Factor	Bound Prior Year Rate Differential Factor - Lower Bound = Prior Year Rate Differential Factor) * (Effective Coverage	Effective Coverage Level Percent	Internal		99.9999	None	
(continued)	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 wil ADM Coverage Level Differential, 'AD1040''. If the Effective Coverage Level Percent equals a existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Level. If the Effective 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.

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Exhibit Name: Premium Calculation

1/28/2019

Record P	Name: Acreage			Version	: Approved	
01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn		0051	. Grain Sorghum		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
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 Exclusion Option "YE" wa chosen.
is equal to Optional Unit, "OU", "UA", "UD", or Basic Ur	nit, "BU", use the following calculation	ons for Unit Re	esidual Factor	and Prior Year Unit F	esidual Factor:	The cap value for the Residual Factors is the
	Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	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 availab Coverage Level or; 2) available Coverage Leve less than or equal to Effective Coverage Level Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "AD1040". If the Effective Coverage Level Percent equal 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 will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is give than the maximum ADM Coverage Level ther this will be based on the highest ADM Covera Level.
Round(Base Unit Residual Factor + (Upper Bound Unit Unit Residual Factor = Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Unit Residual Factor	ADM		999,999	None	Based on the 'lower bound' Coverage Level. with ADM Coverage Level Differential, 'AD1040'. If the Effective Coverage Level equals an exis ADM Coverage Level then this will be based of 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 thar the maximum ADM Coverage Level then this be based on the second highest ADM Covera Level.
	Effective Coverage Level Percent	Internal		99.9999	None	
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit v ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equal: existing ADM Coverage Level Percent. If the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then 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.
	Record Record 01 Yield Protection 0011 Wheat 0015 Canola 0018 Rice Calculations Factor is equal to Optional Unit, "OU", "UA", "UD", or Basic Ur Residual Factor - Lower Bound Unit Residual Factor) * [Effective Coverage Level Percent - Floored Effective]	Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor Round(Base Unit Residual Factor + Floored Effective Coverage Level Percent) 20, 3) Effective Coverage Level Percent 1 20, 3) Effective Coverage Level Percent 5 20, 3) Effective Coverage Level Percent 6 20, 3) Effective Coverage Level Percent 7 20, 3) Effective Coverage Level Percent 8 20, 3)	Record Code: P11 01 Yield Protection 02 Revenue Protection 011 Wheat 0015 Canola 0014 Corn 0015 Rice 03 Popcorn Field. Name Record Name Pland Number Field. Name Internat Internat Base Unit Residual Factor Upper Bound Unit Residual Factor Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor) Residual Factor - Lower Bound Unit Residual Factor) Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor) Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Factor Finder (Coverage Level Percent) Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base Unit Residual Factor) ADM Round (Base Unit Residual Factor) Round (Base	Record Name: Acreage Record Code: P11 01 Yield Protection 02 Revenue Protection 0010 Wheat 0021 Cotton 0053 Canola 0016 Canola 0018 Rice 0043 Popcorn Galculations Field Name Number Field Number Field	Record Code: P11 Recisions 0.1 Vield Protection 0.2 Revenue Protection 0.2 Revenue Protection 0.31 Wheat O034 Corn. 0.31 Conduction 0.32 Conduction 0.33 Conduction 0.34 Corn. 0.35 Grain Seeghum 0.	Record Code: P12 Sevenue Protection O1 Yield Protection O2 Revenue Protection O3 Grain Seguit to Optional Code Code Only Peper Calculations Field Record Reco

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

Reinsurance Year: 2017

	Record Name:		Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
	Record Code:				Release Date			
Commodity Code	01 Yield Protection 0011 Wheat 0015 Canola 0018 Rice	022 Revenue Protection 0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	03 Revenue Protectio	n with Harvest Price Exclusion 0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley	
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	Field 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 leve within the chosen unit structure	
		Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Prior Year Unit Residual Factor is equal Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal t Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".	
		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 exis ADM Coverage Level then this will be based the Effective Coverage Level. If the Effective Coverage Level, if the Effective Coverage Level speraser than the maximum ADM Coverage Level then this be based on the highest ADM Coverage Level then this	
Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Prior Year Unit Residual Factor - Lower Bound Prior Year Factor - Factor - Factor - Factor - Factor - Factor - Floored Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. with ADM Coverage Level Differential, "AD1040". If the Effective Coverage Level equals an exis ADM Coverage Level then this will be based the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will based on lower ADM Coverage Level is greater tha the maximum ADM Coverage Level then this be based on the second highest ADM Covera		
		Effective Coverage Level Percent	Internal		99.9999	None		
		Floored Effective Coverage Level Percent	Internal		99,9999	None	Based on the 'floored' Coverage Level. Edit ADM Coverage Level Differential, 'AD1040'. If the Effective Coverage Level equals a nexi 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 the lower ADM Coverage Levels. If the Effective Coverage Level then the lower ADM Coverage Level. If the Effective Coverage Level is greater that the maximum ADM Coverage Level then this be the highest ADM Coverage Level.	

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					Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code Commodity Code	01 Yield Protection 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 Protectio	n with Harvest Price Exclusion 0075 Peanuts 0078 Sunflowers 0081 Srybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	Field Rounding	Rules
/hen Unit Structure Code i	is equal to Enterprise Unit, 'EU' or 'EP', use the following calc	•				•	
		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 t 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".
		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 existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent falls between existing ADM Coverage Levels then the will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent falls the through the same of the thing the 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.
Round(Base Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Factor Unit Residual Factor) * (Effective Coverage Level Percent Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. E with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existi ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level salls 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 be be assed on the lower ADM Coverage Level then this be based on the second highest ADM Coverage Level.	
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit will ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals: existing ADM Coverage Level Hern this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then the will be the lower ADM Coverage Level. If the Effective Coverage Level Hern this will be the highest ADM Coverage Level then this will be the highest ADM Coverage Level.

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

Reinsurance Year: 2017 Version: Approved

Record Code: P11 Release Date: 2/7/2019 03 Revenue Protection with Harvest Price Exclusion Insurance Plan Code 01 Yield Protection 02 Revenue Protection 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts Commodity Code 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Record Field Field Field Calculations Rules Format The cap value for the Residual Factors is the Prior Year Enterprise Unit Round to 3 decima 999.999 MAX(Residual Factor) from all coverage levels Residual Factor olaces. within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Base Enterprise Prior Year Unit ADM 999.999 Level or; 2) available Coverage Level less than or Residual Factor equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on Upper Bound Prior Year the Effective Coverage Level. Enterprise Unit Residual ADM 999,999 If the Effective Coverage Level falls between Factor existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Round(Base Enterprise Prior Year Unit Residual Factor + (Upper Bound Prior Year Enterprise Unit Residual Factor -Based on the 'lower bound' Coverage Level. Edit Prior Year Enterprise Unit Lower Bound Prior Year Enterprise Unit Residual Factor) * with ADM Coverage Level Differential, Residual Factor (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3) If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on Lower Bound Prior Year the Effective Coverage Level. If the Effective Coverage Level falls between Enterprise Unit Residual ADM 999 999 Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Interna 99 9999 Percent 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. loored Effective Coverage 99 9999 If the Effective Coverage Level falls between Interna Level Percent existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this wil be the highest ADM Coverage Level.

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					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 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> <u>Format</u>	<u>Field</u> Rounding	Rules
/hen Unit Structure Code	is equal to Whole Farm Unit, 'WU', use the following calculati	ons for Whole Farm Unit Residu	al Factor a	nd Prior Ye	ear Whole Farm Unit Residu	al 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 equu to Whole Farm Unit Residual for Minimum of Maximum available Coverage Level or; 2) available Coverage Level. Edit with ADM Coverage Level. Edit with ADM Coverage Level Differential, "A01040".	
		Upper Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "AD1040". If the Effective Coverage Level Percent equals 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 t will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is grea than the maximum ADM Coverage Level then this will be based on the highest ADM Coverag Level.
Round(Base Whole Farm Unit Residual Factor + (Upper Bound Whole Farm Unit Residual Factor - Lower Bound Factor - Lower Bound Whole Farm Unit Residual Factor - (Fifective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an exist ADM Coverage Level then this will be based of the Effective Coverage Level. If 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 be based on the second highest ADM Coveral Level.	
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit w ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then t will be the lower ADM Coverage Level. If the Effective Coverage Level effective is grea than the maximum ADM Coverage Level. this will be the highest ADM Coverage Level.

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		Exhibit Name: Premium Calculation	Dainessana Vaari 2017
		Exhibit Number: P11-1, Plan 01, 02, 03	Reinsurance Year: 2017
		Record Name: Acreage	Version: Approv
		Record Code: P11	Release Date: 2/7/201
nsurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Reve

rsion: Approved Date: 2/7/2019 03 Revenue Protection with Harvest Price Exclusion 02 Revenue Protection 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 Format The cap value for the Residual Factors is the Prior Year Whole Farm Unit Round to 3 decimal Interna 999,999 MAX(Residual Factor) from all coverage levels Residual Factor olaces. within the chosen unit structure Base Whole Farm Base Prior Year Unit Residual Factor is equal to Whole Farm Base Prior Year Unit Residual for Minimum of 1) Maximum Base Whole Farm Base Prior ΔDM 999,999 available Coverage Level or; 2) available Year Unit Residual Factor Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on Upper Bound Prior Year the Effective Coverage Level. Whole Farm Unit Residual ADM 999.999 None If the Effective Coverage Level falls between Factor existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Round(Base Whole Farm Prior Year Unit Residual Factor + (Upper Bound Prior Year Whole Farm Unit Residual Factor Prior Year Whole Farm Based on the 'lower bound' Coverage Level, Edit Lower Bound Prior Year Whole Farm Unit Residual Factor) * Unit Residual Factor with ADM Coverage Level Differential, (Effective Coverage Level Percent - Floored Effective "Δ01040" Coverage Level Percent) * 20, 3) If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Lower Bound Prior Year Whol ADM 999.999 If the Effective Coverage Level falls between Farm Unit Residual Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Effective Coverage Level 99.9999 Interna 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. Floored Effective Coverage Interna 99.9999 If the Effective Coverage Level falls between Level Percent existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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				: 2017 : Approved : 2/7/2019			
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>	Record Number	Field Number	<u>Field</u> <u>Format</u>	Field Rounding	Rules
ection 15: Unit Discount							The lookup/interpoloation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor when Trend Adjustment Optic (TA) or Yield Exclusion Option (YE) was chosen and yield reflects a trend.
hen Unit Structure Code	is equal to Optional Unit, "OU", "UA", or "UD", use the follow	1		Factor:	0.00000000	Round to 4 decimal	Consol at 1.0
	Unit Structure Discount Factor Base Coverage Level Percent Optional Unit Discount Factor	ADM		9.99999999	places.	Capped at 1.0 Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount Factor is equal to Percent Option 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".	
		Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existir 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.
Unit Structure Discount Factor		Lower Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9,9999999	None	Based on the 'lower bound' Coverage Level. Et with ADM Coverage Level Differential, "ADIA04". If the Effective Coverage Level equals an existi ADM Coverage Level, the this will be based on the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Levels then this will be based on the lower ADM Coverage Level is greater than the maximum ADM Coverage Level then this who based on the second highest ADM Coverage Level Level.
		Effective Coverage Level Percent	Internal		99.9999	None	
		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 equals an existi ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Level sthen this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this w be the highest ADM Coverage Level then this w

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

Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019

03 Revenue Protection with Harvest Price Exclusion Insurance Plan Code 01 Yield Protection 02 Revenue Protection 0011 Wheat 0047 Dry Beans 0051 Grain Sorghum 0021 Cotton 0075 Peanuts

Commodity Code	0015 Canola 0018 Rice	0041 Corn 0043 Popcorn			0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	0091 Barley Rules
When Unit Structure Code is	s equal to Basic Unit, 'BU', use the following calculation for U	nit Structure Discount Factor:					
		Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0
		Base Coverage Level Percent Basic Unit Discount Factor	ADM		9.99999999	None	Base Coverage Level Percent Basic Unit Discour Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level lest with ADM Coverage Level Differential, "A01040".
	Upper Bound Coverage Level Percent Basic Unit Discount Factor	ADM		9.9999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existin 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 wil be based on the higherst ADM Coverage Level.	
Unit Structure Discount Factor		Lower Bound Coverage Level Percent Basic Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Ed with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existin 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 Level.
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit wit ADM Coverage Level Differential, "ADIO40". If the Effective Coverage Level equals an existin ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans 0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<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 following calcu	ulation for Unit Structure Discou	nt Factor:				
	Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0
	Base Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.99999999	None	Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level or; 2) available Coverage Level Est than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Unit Structure Discount Factor Level Percent Enterprise Unit Discount Factor + (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Upper Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
	Lower Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		99.999	None	
	Floored Effective Coverage Level Percent	Internal		99,9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, 'ADI040'. 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 Level falls between existing ADM Coverage Level sthen this will be the lower ADM Coverage Level is greater than the maximum ADM Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Reinsurance Year: 2017 Record Name: Acreage Version: Approved Record Code: P11 Release Date: 2/7/2019	
Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with H	Harvest Price Exclusion
Commodity Code 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 S	Peanuts Sunflowers Soybeans Barley
Field Record Field Field Field Calculations Name Number Number Format Rounding	Rules
Unit SI regard Flectic Downed Rice Endorsement (DRE) Option 'DC' the ba Insure Rice. is not.	loes not apply to Downed Rice (DRE). Only structure Codes 'BU and OU' apply diess of the base Rice selection. Price on Percent for base Rice will apply to DRE. by Level will be 38% for DRE regardless of ase Rice Unit Structure or Coverage Level. ed Share can be different for DRE than base Insured Share will be 100%. DRE coverage available for high-risk CAT acreage if ded from additional coverage for Base Rice.
Premium liability Amount Internal gggggggggg Round to whole	
Populium Lishilit. Amount - Dollar Amount of Insurance * Reported Acreage * Insured	with ADM Price, "A00810", Fixed Coverage unt with insurance option = 'DC'.
** Share Percent * Price Election Percent Reported Acreage P11 48 99999999.99 None	
	nsured share will always be 100% without ds to base Rice.
Price Election Percent ICE 9.9999 None From t	base Rice P14 record.
Liability Amount P11 91 999999999 Round to whole number.	
	vith ADM Price, "A00810", Fixed Coverage
Dollar Amount of Insurance ADM 99999 None	unt with insurance option = 'DC'.
	int with insurance option = 'DC'.
Liability Amount = Dollar Amount of Insurance * Reported Acreage * Insured Share Percent * Price Election Percent Dollar Amount of Insurance ADM 999999 None Amount of Insurance ADM 999999 None Dollar Amount of Insurance ADM 999999 None	int with insurance option = 'DC'. Insured share will always be 100% without ds to base Rice.

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
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	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
Section 17: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount	ivanie	ivumber	Number	ronnat	Kounung	nuies		
		Preliminary Total Premium	Internal		999999999	Round to whole number.			
Preliminary Total = 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	92	999999999	Round to whole number.			
Subsidy Amount :	otal Premium Amount * Subsidy Percent	Subsidy Amount	P11	90	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 18 for subsidy calculations.		
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070". Will always be 38% for DRE.		
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	93	999999999	Round to whole number.			
Section 18: Beginning Farmo	er and Rancher (BFR), Native Sod (NS) and Conservation Com	pliance (CC) Subsidy Calculation	is						
Base Subsidy Amount	= Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.		
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".		
BFR Subsidy Amount :	Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR Subsidy Amount	Internal		999999999	Round to whole number	Beginning Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).		
Native Sod Subsidy Amount	Total Premium Amount * 0.50	Native Sod Subsidy Amount	Internal		999999999	Round to whole number	If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.		

P11

P11

P11

P11

76

108

90

93

9.9999

999999999

999999999

999999999

Round to whole

Round to whole

Round to whole

number

number

If Applicable; else 0.

If Applicable; else 0.

CC Subsidy Reduction Amount.

Subsidy Amount cannot exceed Total Premium

Amount. Subsidy Amount will be cupped at \$0.

CC Subsidy Reduction Percent

CC Subsidy Reduction Amount

Producer Premium Amount

Subsidy Amount

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CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent

Producer Premium Amount = Total Premium Amount - Subsidy Amount

Subsidy Amount =

Base Subsidy Amount + BFR Subsidy Amount - Native Sod

Subsidy Amount - CC Subsidy Reduction Amount

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>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Section 19: Yield Exclusion	and Trend APH Current Year Base Premium Rate Calculations	(only use when the Effective Co	verage Lev	el for the r	ecord exceeds the highest of	coverage level for the o	ffer in the ADM)
		Unadjusted Liability Amount	Internal		999999999	Round to whole number	
Unadjusted Liability	_Round((Coverage Level Percent/Effective Coverage Level	Coverage Level Percent	P14	34	9.9999	None	
	Percent),10) * Premium Liability Amount	Effective Coverage Level Percent	Internal		99.9999		
		Premium Liability Amount	Internal		999999999	Round to whole number	

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

Reinsurance Year: 2017 Version: Approved

Coverage Level Differential, "A01040".

Release Date: 2/7/2019 Record Code: P11 Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts Commodity Code 0015 Canola 0041 Corn 0051 Grain Sorghum 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Record Field Field Field Calculations Number Format Rounding Max Coverage Level nternal ound to 8 decimals djustment Factor tound to whole Jnadjusted Liability Amount 999999999 When Unit Structure Code is equal to Optional Unit, "OU", Current Year Base Rate 99999999999999 Round to 8 decimals ternal "UA" or "UD: tound to whole remium Liability Amount 999999999 ternal number ROUND(1.00/ Current Year Base Rate.8) -Base Rate Differential Factor ADM 9.999999999 None ROUND(Unadjusted Liability Amount/(Current Year Base Base Unit Residual Factor ADM 999,999 None Rate * Premium Liability Amount).8) + ROUND(ROUND(Ba Rate Differential Factor * Base Unit Residual Factor * Base Base Optional Unit Structure Discount Factor is Optional Unit Structure Discount Factor * Unadjusted equal to Optional Unit Discount Factor for Liability Amount,8)/Premium Liability Amount,8) Minimum of 1) Maximum available Coverage Base Optional Unit Structure ADM 9.999999999 Level or; 2) available Coverage Level less than or None equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info Base Basic Unit Structure Discount Factor is When Unit Structure code is Basic Unit, "BU": egual to Basic Unit Discount Factor for Minimus of 1) Maximum available Coverage Level or: 2) ROUND(1.00/ Current Year Base Rate,8) available Coverage Level less than or equal to ROUND(Unadjusted Liability Amount/(Current Year Base Base Basic Unit Structure ADM 9.999999999 Effective Coverage Level. Edit with ADM Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Coverage Level Differential, "A01040". Rate Differential Factor * Base Unit Residual Factor * Base See Section 19 for more info. Basic Unit Structure Discount Factor * Unadjusted Liability When the total planted acres for the unit is 0 (al mount,8)/Premium Liability Amount,8) Max Coverage Level acres are prevented planted) set to 1.00. Adjustment Factor 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 When Unit Structure code is Enterprise Unit, "EU" or "EP": Base Enterprise Unit Structure ADM 9.99999999 equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". ROUND(1.00/ Current Year Base Rate,8) -See Section 19 for more info. ROUND(Unadjusted Liability Amount/(Current Year Base When the total planted acres for the unit is 0 (all Rate * Premium Liability Amount),8) + ROUND(ROUND(Base acres are prevented planted) set to 1.00. Rate Differential Factor * Base Enterprise Unit Residual Factor * Base Enterprise Unit Structure Discount Factor * Base Enterprise Unit Residual Factor is equal to Unadjusted Liability Amount,8)/Premium Liability Amount,8) Enterprise Unit Residual for Minimum of 1) Base Enterprise Unit Residual Maximum available Coverage Level or; 2) ADM 999.999 Factor available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Capped at 1.0 When Unit Structure code is Whole Farm Unit "WU": Unit Structure Discount Factor 9.99999999 See Section 19 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion). ROUND(1.00/ Current Year Base Rate,8) -ROUND(Unadjusted Liability Amount/(Current Year Base Base Whole Farm Unit Residual Factor is equal Rate * Premium Liability Amount),8) + ROUND(ROUND(Base to Whole Farm Unit Residual for Minimum of 1) Rate Differential Factor * Base Whole Farm Unit Residual Base Whole Farm Unit Maximum available Coverage Level or: 2) ADM 999.999 Factor * Unit Structure Discount Factor * Unadjusted Vone Residual Factor available Coverage Level less than or equal to Liability Amount 8)/Premium Liability Amount 8) Effective Coverage Level. Edit with ADM

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		-		Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019				
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	0041 Corn 0051 Grain			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas	n Sorghum 0078 Sunflowers		
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
Marginal Rate Adjustment Factor	Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit Structure Discount Factor)	Marginal rate Adjustment Marginal Adjustment Rate Factor	Internal		9.9999999	Round to 8 decimals.	1,001.02	
		Max Coverage Level Adjustment Factor	Internal		999999999.99999999	Round to 8 decimals.		
		Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).	
		Unit Residual Factor	ADM		999.999	None	### ADM Coverage Level Differential, #A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).	
		Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment) 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) 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) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit 'WU'.	

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		*			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 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
<u>-</u>	When Unit Structure Code is equal to Optional Unit. "OU".	Current Year Base Premium Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	11010
		Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) 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, "AD1040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "'OU", "UA", "'UD", or Basic Unit, 'BU'.
		Marginal Rate Adjustment Factor	Internal		9999999999999999	Round to 8 decimals.	
	When Unit Structure code 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) and "YE" (Yield Exclusion) 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) * MIN(Marginal Rate Adjustment Factor, 1.00)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit 'WU'.

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	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2017 Version: Approved Release Date: 2/7/2019					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion						
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley				
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules		
Section 20: Yield Exclusion and Trend APH for Cottonseed—Current Year Base Premium Rate Calculations (only use when the Effective Coverage Level for the record exceeds the highest coverage level for the offer in the ADM).									
Current Year Base Premium Rate	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Current Year Base Premium Rate	Internal		9999999999999999	Round to 8 decimals.			
		Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) 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) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.		
		Marginal Rate Adjustment Factor	Internal		9999999999999999	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) and "YE" (Vield Exclusion) where Unit Structure Code equal to Enterprise Unit, "EU" or "EP".		

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