	Exhibit M Record Record	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015						
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 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley						
	Columbations	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	<b>D</b> las				
Section 1: Liability Calculat	Calculations	Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules				
	= Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount Approved Yield Coverage Level Percent	Internal P11 P14	46	9999999999.99 999999999.99 999999999.99 9.9999	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. None None					
Guarantee Per Acre Amount	=	Guarantee Per Acre Amount	Internal	75	9999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.					
		Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015						
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 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley						
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules				
		Price Election Amount	Internal		9999.9999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [\$9.999].					
Price Election Amount	t = Projected Price (or Contract Price) * Price Election Percent	Projected Price	ADM		99999.9999		Liability for Yield Protection, "01" allows the produ the opportunity to choose a percentage of the Projected Price. Liability for Revenue Protection, ' or Revenue Protection with Harvest Price Exclusio "03", requires the producer to choose 100 percent the Projected Price. Edit with ADM Price, "00810"				
		Contract Price	P11	50	9999.9999	None	For Yield Protection, "01", Contract Price may be u in lieu of the Projected Price for specialty types of Soybean or Barley. If the insured chooses to use t contract price, the contract price per bushel shoul entered in the contract price field. The contracted price will be capped by RMA at a certain percentag over the projected price for Soybean and Barley as specified in the Special Provisions.				

Insurance Plan Code Commodity Code	Exhibit Number Record Name Record Code 01 Yield Protection 0011 Wheat 0015 Canola	2 P11 02 Revenue Protection 0021 Cotton 0041 Corn	Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015 03 Revenue Protection with Harvest Price Exclusion 0078 Sunflower 0081 Soybeans						
	0018 Rice	0051 Grain Sorghum Field	Record	Field	0091 Barley Field	Field			
	Calculations	Name	Number	Number	Format	Rounding	Rules		
		Price Election Percent	ICE		9.9999	None	Price Election Percent must equal 1.000, when Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007".		
Premium Total Guarantee	Premium Guarantee Dar Acre Amount * Drice Election	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.			
	Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None			
Amount		Reported Acreage	P11	52	99999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.		
	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	97	999999999.99	Round to 2 decimals.			
Total Guarantee Amount =		Price Election Amount	Internal		9999.9999	None			
	Reported Acreage	Reported Acreage	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.		
Dromium Liphility Array	- Dramium Total Guarantea Amount * Incured Chara Deveat	Premium Liability Amount	Internal		9999999999	Round to whole			
Premium Liability Amount	Premium Total Guarantee Amount * Insured Share Percent	Insured Share Percent	P11	47	9.9999	None			
Liability Amount -	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	88	99999999999	Round to whole number.			
		Insured Share Percent	P11	47	9.9999	None			

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	ction with Harvest Price Exclusion			
	0011 Wheat	0021 Cotton			0078 Sunflower					
Commodity Code	0015 Canola	0041 Corn			0081 Soybeans					
	0018 Rice	0051 Grain Sorghum			0091 Barley					
		Field	Record	Field	<u>Field</u>	Field				
	<u>Calculations</u>	Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules			
ection 2: Base Premium Ra	ate Calculation									
		Current Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.			
Current Year Yield Ratio	= Rate Yield / Reference Amount	Rate Yield	P15	35	99999999.99	None				
		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				
		Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".			
Current Year Rate Multiplier	= Current Year Yield Ratio ^ Exponent Value	Current Year Rate Multiplier	Internal		9999.999999999	Round to 8 decimals.				
wuitiplier		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		9999.999999999	Round to 8 decimals.				
		Prior Year Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".			
	When Rate Method Code is Fixed, "F":	Current Year Base Rate	Internal		9999999999.99999999	Round to 8 decimals.				
-	= Sub County Rate	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 17 for Written Agreement Sub County Rate information.			
- Current Year Base Rate	When Rate Method Code is Additive, "A": = Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Current Year Rate Multiplier	Internal		9999.99999999	None				
=	When Rate Method Code is Multiplicative, "M": = Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010". See Section 1 for Written Agreement Rate Information.			
-	Otherwise: = Current Year Rate Multiplier * Reference Rate + Fixed rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010". See Section 10 for Written Agreement Rate Information.			

		0			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
		Prior Year Base Rate	Internal		9999999999.99999999	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". See Section 17 for Written Agreement Sub County Rate information.
	When Rate Method Code is Additive, "A":						
= Prior Year Base Rate	Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal	al	9999.999999999	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". See Section 16 for Written Agreement Rate Information.
=	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". See Section 16 for Written Agreement Rate Information.
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Current Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
=	Current Year Base Rate * Rate Differential Factor * Unit	Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040".
	Residual Factor	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040".
Current Year Base	When Unit Structure code is Enterprise Unit, 'EU':						
Premium Rate <sub>=</sub>	Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Whole Farm Unit, "WU":						
=	Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".

		0	l-1, Plan 01, 02, 03 Reinsurance Year: 2011 eage Version: Approved						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley				
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Prior Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.			
=	Prior Year Base Rate * Prior Year Rate Differential Factor *	Prior Year Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040".		
	Prior Year Unit Residual Factor	Prior Year Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040".		
Prior Year Base Premium Rate =	When Unit Structure code is Enterprise Unit, "EU": Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor	Prior Year Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".		
=	When Unit Structure code is Whole Farm Unit, 'WU': Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor	Prior Year Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".		
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999)	Base Premium Rate	P11	91	9999999999.99999999	Round to 8 decimals.			
Revenue Lookup Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.9999)	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.			
Base Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.999)	Base Rate	Internal		999.99999999	Round to 8 decimals.			

		•			Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 3: Unit Discount Ca	alculation						For all Combo Commodities, if the chosen Unit Structure is Optional Units, the appropriate discount factor should be looked up and applied.
When Commodity Code is	NOT EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", o	or Soybeans, "0081".					Prevented planting information will not be used in the determination of summed acres for the unit. If the unit is 'totally' prevented planting then no discount. If the unit has planted acres in addition to prevented planting then the discount determined based on planted acres will be applied to the prevented planting acres.
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD": 1.0	Unit Structure Discount Factor	Internal		9.99999999	Round to 8 decimals.	
	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".
Unit Structure Discount Factor		Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being Greater Than the Area Low Quantity and less than Area High Quantity fields contained on the ADM Unit Discount, "A01090".

Insurance Plan Code Commodity Code	0011 Wheat 0021 Cotton				Reinsurance Year: Version: Release Date: 0078 Sunflower 0081 Soybeans	Approved 8/11/2015	tion with Harvest Price Exclusion
	0018 Rice	0051 Grain Sorghum <u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	0091 Barley <u>Field</u> Format	Field Rounding	Rules
When Commodity Code is	EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soyl	beans, "0081".					Prevented planting information will not be used in the determination of totaled acres, proportion liability, average rate(s), and variable unit discount for the unit. If the unit is 'totally' prevented planting then no discount . If the unit has planted acres in addition to prevented planting acres then the discount determined based on those planted acres will be applied to the prevented planting acres.
Total Liability Amount	$_{=} \sum$ Premium Liability Amount for all records within the Insured	Total Liability Amount	Internal		9999999999	Round to whole number.	
	unit for the Commodity	Premium Liability Amount	Internal		9999999999	None	
	$= \sum$ Round (Premium Liability Amount by Type within the Insured Unit / Total Liability Amount, 8)	Proportion Liability Type Amount	Internal		999999.99999999	Round to 8 decimals.	
Proportion Liability	$= \sum$ Round (Premium Liability Amount by Practice within the Insured Unit / Total Liability Amount, 8)	Proportion Liability Practice Amount	Internal		999999.99999999	Round to 8 decimals.	
Proportion Liability Unit	$= \sum$ Round (Premium Liability Amount by Record / Total Liability Amount, 8)	Proportion Liability Unit Amount	Internal		999999.99999999	Round to 8 decimals.	
	number of units	Average Raw Rate	Internal		99999999.9999999	Round to 8 decimals.	
	$\sum_{i=1}^{n} \sum_{j=1}^{n} Round((Reference Rate_i + Fixed Rate_i))$	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Average Raw Rate	= ZROUNd((Reference Rate <sub>i</sub> + Fixed Rate <sub>i</sub> ) i=1 * Proportion Liability Unit Amount <sub>i</sub> ,8)	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	number of units	Average Base Rate	Internal		99999999.9999999	Round to 8 decimals.	
Average Base Rate	= $\sum_{i=1}^{i=1}$ Round((Base Rate <sub>i</sub> ) * Proportion Liability Unit Amount <sub>i,</sub> 8)	Base Rate	ADM		99999999.9999999	None	Edit with ADM Combo Revenue Factor, "A01030".

		•			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice Calculations	0021 Cotton 0041 Corn 0051 Grain Sorghum <u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	0078 Sunflower 0081 Soybeans 0091 Barley <u>Field</u> Format	<u>Field</u> Rounding	Rules
	Calculations			Number		Round to 8	Kules
Average Base Premium Rate =	number of units E $\sum_{i=1}^{\infty} Round((Base Premium Rate_i))$ * Proportion Liability Unit Amount <sub>i</sub> , 8)	Average Base Premium Rate Base Premium Rate	Internal P11	91	99999999.99999999	decimals.	
		Predicted Value Quantity	Internal		999999.999999999	Round to 8 decimals.	
Size C Rate Predicted Value Quantity = $\sum_{Coeff}$ Coeff	Intercept Coefficient + Total Reported Acreage * Total Unit Size Coefficient + Average Raw Rate * Average County Base Rate Coefficient + ∑distinct Proportion Liability Type Amount, * Type Coefficient, +	Intercept Coefficient	ADM		\$9.9999	None	Edit with ADM Unit Discount, "A01090". When pulling the Intercept Coefficient, Total Unit Size Coefficient, Average County Base Rate Coefficient, and Standard Deviation Quantity, the values should be the same for a given commodity and coverage level percent although they may have different Unit Id's. The reason for the different Unit Id's is to account for the Type Coefficients and Practice Coefficients which will vary by the type and practice in each unit and coverage level percent.
	$\sum$ distinct Proportion Liability Practice $Amount_i \cdot Practice$ $Coefficient_i$	Total Reported Acreage	ADM		9.9999999	None	Edit with ADM Unit Discount, "A01090". Total Reported Acreage refer to the sum of the Reported Acreage which were not prevented from Planting for the unit.
		Average Raw Rate * Average County Base Rate Coefficient	ADM		99.9999	None	Edit with ADM Unit Discount, "A01090".
		Proportion Liability Type * Type Coefficient	ADM		9.9999	None	Edit with ADM Unit Discount, "A01090".
		Proportion Liability Practice * Practice Coefficient	ADM		9.9999	None	Edit with ADM Unit Discount, "A01090".

	Exhibit Name: Premium Exhibit Number: P11-1, Pl Record Name: Acreage Record Code: P11			-1, Plan 01, 02, 03 Reinsurance Year: 2011 eage Version: Approved						
Insurance Plan Code		02 Revenue Protection 0021 Cotton			0078 Sunflower	03 Revenue Protect	ion with Harvest Price Exclusion			
<u>Commodity Code</u>		0041 Corn 0051 Grain Sorghum <u>Field</u>	Record		0081 Soybeans 0091 Barley <u>Field</u>	Field				
	Calculations	Name	Number	Number	Format	Rounding	Rules			
	IF (Predicted Value Quantity / Standard Deviation Quantity ) < 0:	CDF	Internal		999999.99999999	Round to 8 decimals.				
Cumulative Distribution Function (CDF)	0.39894228 * EXP(-(Predicted Value/ Standard Deviation Quantity) <sup>2</sup> /2) x [0.31938153 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) – 0.356563782 * (1/ (1-0.2316419 * (Predicted Value Quantity/) $\equiv$ Standard Deviation Quantity))) <sup>2</sup> + 1.781477937 * (1/ (1- 0.2316419 * (Predicted Value Quantity/Standard Deviation	Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".			

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection with Harvest Price Exclusion					
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley						
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules				
	IF (Predicted Value Quantity / Standard Deviation Quantity) $\geq$ 0:	CDF	Internal		999999.999999999	Round to 8 decimals.					
Cumulative Distribution Function (CDF)	1 - 0.39894228 * EXP(-(Predicted Value Quantity / Standard Deviation Quantity) <sup>2</sup> /2) x [0.31938153 * (1/ (1+0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) – 0.356563782 * (1/ (1+0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) <sup>2</sup> + 1.781477937 * (1/ (1+0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) <sup>3</sup> – 1.821255978 * (1/ (1+0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) <sup>4</sup> + 1.330274429 * (1/ (1+0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) <sup>5</sup> ]	Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".				
Probability Distribution	0.39894228 * EXP(-(Predicted Value Quantity/ Standard	PDF	Internal		999999.999999999	Round to 8 decimals.					
Function (PDF)	0.39894228 * EXP(-(Predicted Value Quantity/ Standard Deviation Quantity) <sup>2</sup> /2)	Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".				
Expected Normalized LCR	Predicted Value Quantity * CDF + Standard Deviation	Expected Normalized LCR Difference	Internal		9999999999.99999999	Round to 8 decimals.					
Difference		Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".				
Yield Protection LCR = Difference Quantity	Average Base Rate * Expected Normalized LCR Difference	Yield Protection LCR	Internal		999999.999999999	Round to 8 decimals.					
Unit Structure Discount Factor =	MAX [0.60, (Average Base Premium Rate - Yield Protection LCR Difference Quantity) / Average Base Premium Rate]	Unit Structure Discount Factor	Internal		9.99999999	Round to 8 decimals.					

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11					r: 2011 n: Approved e: 8/11/2015	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	Field Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 4: Optional Covera	ge						The Biotech Endorsement (BE) will be treated as a normal option and it's rate will be applied in this section. In the legacy system the Biotech Endorsement was applied separately with it's own field premium discount factor. This will no longer be the case.
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Rate Adjustment Factor	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".
	-	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040
Multiplicative Optional	When Rate Method Code is Multiplicative, "N =	<b>//":</b> Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor	$\sum$ Option Rate1 * Option Rate2 * Option Rate3	3 Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

	Exhi Re	thibit Name: Premium Calculation bit Number: P11-1, Plan 01, 02, 03 cord Name: Acreage cord Code: P11			Reinsurance Year Version Release Date	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0078 Sunflower		
Commodity Code	0015 Canola	0041 Corn			0081 Soybeans		
	0018 Rice	0051 Grain Sorghum			0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
ection 5: Revenue Cover	age Add on Rates (Applicable only for Plans 02 and (	33)					It is recommended that other than hard coding for specific type and practice codes which will eventuall change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This conditio MUST occur at some point in order to circumvent th Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.
		Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.	
		Approved Yield (AY)	P11	46	99999999.99	None	
Adjusted Mean Quantity	y = Approved Yield * Mean Quantity / 100	Mean Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate
		Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		9999999999.99999999	Round to 8 decimals.	
		Approved Yield (AY)	P11	46	999999999.99	None	
Adjusted Standard Deviation Quantity	d y = Approved Yield * Standard Deviation Quantity / 10	00 Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity, When the Revenue Lookup Rate = Base Rate
1-21/2	r = Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.999999999	Round to 8 decimals.	
Lnva		Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".
Lnva							
	n = Ln(Projected Price) – LnVar / 2	log Mean Quantity (LnMean)	Internal		999999.999999999	Round to 8 decimals.	

			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection		on with Harvest Price Exclusion				
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley			
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
Yield Draw Quantity <sub>Sequence</sub> = Number =	For Sequence Number 1 to 500 = Yield Draw Quantity	Yield Draw Quantity	ADM		\$99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030".	
Price Draw Quanity <sub>Sequence</sub> - <sub>Number</sub>	For Sequence Number 1 to 500 = Price Draw Quantity	Price Draw Quantity	ADM		\$99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM	
	500	Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		9999999999,999999999999	Round to 12 decimals.		
Simulated Yield Protection Losses Quantity	$= \sum_{i=1}^{n} \text{Round}(MAX(0, AY * \text{covlvl} - MAX(0, Yield_i * AdjStndDev + AdjMean)), 12)}$	Approved Yield (AY)	P11	46	99999999.99	None		
		Coverage Level Percent (covlvl)	P14	34	9.9999	None		
		Yield Draw Quantity <sub>i</sub> (Yield <sub>i</sub> )	ADM		\$99.999999999	None		

		0			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 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	500	Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		99999999999.999999999999	Round to 12 decimals.	
Simulated Revenue	<b>Example 1 Round(</b> MAX(0, AY * covlvl * MAX(ProjPrice,	Approved Yield (AY)	P11	46	99999999.99	None	
Protection Losses =		Coverage Level Percent (covlvl)	P14	34	9.9999	None	
Quantity	(MAX(0, Yield <sub>i</sub> * AdjStdDev + AdjMean) * MIN(2 * ProjPrice, e <sup>(Price</sup> <sup>* SQRT(LnVar) + LnMean</sup> ))), <b>12)</b>	Yield Draw Quantity <sub>i</sub> (Yield <sub>i</sub> )	ADM		\$99.999999999	None	
	MIN(2 * ProjPrice, e' (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	Projected Priced (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810".
Simulated Revenue Protection with Harvest		Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		99999999999.999999999999	Round to 12 decimals.	
Price Exclusion Losses Quantity	(MAX(0, Yieldi *AdjStdDev + AdjMean) * MIN(2 * ProjPrice,e <sup>(price</sup> i * <sup>SQRT(LnVar) + LnMean)</sup> ))), 12)	Approved Yield (AY)	P11	46	99999999.99	None	
,	ProjPrice,e <sup>(price</sup> ) 500((2007) 2007(2007))), <b>12</b> )	Coverage Level Percent (covlvl)	P14	34	9.9999	None	
Simulated Yield Protection Base Premium Rate	(Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Simulated Revenue Protection Base Premium = Rate	(Simulated Revenue Protection Losses / 500) / (Approved Yield * Coverage Level Percent * Projected Price)	Simulated Revenue Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
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)	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Protection Premium Add =	MAX(Simulated Revenue Protection Base Premium Rate - = Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.
Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	MAX(Simulated Revenue Protection with Harvest Price = Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium Rate)	Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection with Harvest Price Exclusion will not be less than half of the Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.

	Exh Ri	xhibit Name: Premium Calculation ibit Number: P11-1, Plan 01, 02, 03 ecord Name: Acreage Record Code: P11		: 2011 : Approved : 8/11/2015			
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				ection with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola	0021 Cotton 0041 Corn			0078 Sunflower 0081 Soybeans		
	0018 Rice <u>Calculations</u>	0051 Grain Sorghum Field Name	<u>Record</u> Number	<u>Field</u> Number	0091 Barley <u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
ection 6: Historical Reve A220	nue Capping (Applicable only for Plans 02 and 03)						This section is for calculation the 2010 Revenue Assurance Optional Unit Level Base Premium Rate for coverage level percents 65 thru 85 where applicable. Then it is used in conjunction with the Base Premium Rate and Revenue Add On Rates to compute capped Revenue Add On Rates. This tabl is set up such that the only value that will change from year to year is the Commodity Year. By doing this we are fixing a point where the premium calculation method was changed and applying an exponential capping over time.
							If there is NOT a corresponding row in the Historic Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performe for those coverage level percents as well.
Capping Yield Ratio	o = Rate Yield / Capping Reference Yield	Capping Yield Ratio Rate Yield	Internal P15	35	9.99	Round to 2 decimals. None	Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performe
Capping Yield Ratio	o = Rate Yield / Capping Reference Yield			35		decimals.	Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performe for those coverage level percents as well.
		Rate Yield Capping Reference Yield Prior Capping Yield Ratio	P15 ADM Internal		99999999999999999999999999999999999999	decimals. None Round to 2 decimals.	Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performe for those coverage level percents as well.
	o = Rate Yield / Capping Reference Yield o = Rate Yield / Prior Capping Reference Yield	Rate Yield Capping Reference Yield	P15 ADM	35	999999999.99 99999.99	decimals. None None Round to 2	Revenue Capping ADM, "A01110", then this calculation does not need to be performed.         Furthermore, since coverage level percents 50, 55         60 did not exist for Revenue Assurance (RA)         historically capping does not need to be performed         for those coverage level percents as well.         Cup at 0.50 and Cap at 1.50.         Edit with ADM Historical Revenue Capping, "A0111
Prior Capping Yield Ratic		Rate Yield Capping Reference Yield Prior Capping Yield Ratio Rate Yield	P15 ADM Internal P15		99999999999999999999999999999999999999	decimals. None None Round to 2 decimals. None	Revenue Capping ADM, "A01110", then this calculation does not need to be performed.         Furthermore, since coverage level percents 50, 55         60 did not exist for Revenue Assurance (RA)         historically capping does not need to be performed for those coverage level percents as well.         Cup at 0.50 and Cap at 1.50.         Edit with ADM Historical Revenue Capping, "A0111         Cup at 0.50 and Cap at 1.50.

					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 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley					
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> <u>Rounding</u>	Rules			
Prior Capping Rate	· Prior Capping Yield Ratio <b>^Prior</b> Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.				
Multiplier		Prior Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110"			
	If Rate Method Code = Fixed, "F": Sub County Rate	Historical Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.				
	If Rate Method Code = Additive, "A":	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 17 for Written Agreement Sub County Rate information.			
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		999999.999999999	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". See Section 17 for Written Agreement Sub County Rate information.			
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"			

					Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code Commodity Code	01 Yield Protection 0011 Wheat 0015 Canola 0018 Rice	0041 Corn 0			0078 Sunflower 0081 Soybeans 0091 Barley	ion with Harvest Price Exclusion	
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
=	.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.	
Historical Revenue = Protection Base Premium Rate	When Unit Structure code is equal to Optional Unit, "OU", "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)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor 2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor ] * Unit Residual Factor X 1.1	Historical Revenue Protection Base Premium Rate Beta 0 Factor - Beta 14 Factor	Internal		999999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	Edit with ADM Historical Revenue Capping, "A01110
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040
=	When Unit Structure Code is equal to Enterprise Unit, "EU": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040'

		•			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	When Unit Structure code is equal to Optional Unit, "OU", "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)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor /2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor ] * Unit Residual Factor X 1.1	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		9999999999, 99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
		Beta O Factor - Beta 14 Factor	ADM		\$99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110"
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
=	When Unit Structure Code is equal to Enterprise Unit, "EU": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040".

	Exhibit Name: Premium Calc Exhibit Number: P11-1, Plan 0: Record Name: Acreage Record Code: P11			I, Plan 01, 02, 03 Reinsurance Year: 2011						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	ion with Harvest Price Exclusion			
Commodity Code	0015 Canola	0021 Cotton 0041 Corn 0051 Grain Sorghum	Decend		0078 Sunflower 0081 Soybeans 0091 Barley Field	Piala				
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	Format	<u>Field</u> Rounding	Rules			
		Capped Revenue Protection Add on Rate	Internal		9999999999,9999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protectic with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.			
	Rate	Base Premium Rate	P11	91	999999.999999999	None				
		Commodity Year	P14	10	CCYY	None				
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110			
Protection with Harvest	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate *	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		9999999999,9999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protectic with Harvest Price Exclusion, "03" from section 5, th Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.			
Rate	1.2 <sup>(Commodity Year - Capping Year)) - Base Premium Rate</sup>	Base Premium Rate	P11	91	999999.99999999	None				
		Commodity Year	P14	10	CCYY	None				
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110			

	Exhibit Numb	ne: Premium Calculation er: P11-1, Plan 01, 02, 03 ne: Acreage de: P11			Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	Field <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
Section 7: Whole Farm Ui	nit Base Premium Rate						The Whole Farm Unit Discount is only applicable to the Revenue Protection and Revenue Protection with Harvest Price Exclusion Insurance Plans, unless the Special Provisions allow Whole Farm Units for other Insurance Plans. Whole Farm Units will now mandate that producers include both their spring and fall planted commodities into the whole farm unit for commodity/plans offering Whole Farm Units. Malting Barley Coverage is NOT applicable for Whole
							Farm Unit. Malting Barley Coverage is provided as a separate Basic Unit.
Mean Quantity <sub>commodity</sub>	<sub>j</sub> j = Mean Quantity <sub>commodityj</sub> WHERE Revenue Lookup Rate <sub>commodityj</sub> = Base Rate <sub>commodityj</sub>	Mean Quantity <sub>commodityj</sub>	ADM		999.999999999	None	Farm Unit. Malting Barley Coverage is provided as a separate Basic Unit.         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate
Mean Quantity <sub>commodity</sub>	j = Mean Quantity <sub>commodityj</sub> WHERE Revenue Lookup Rate <sub>commodityj</sub> = Base Rate <sub>commodityj</sub>	Revenue Lookup Rate <sub>commodityj</sub>	Internal		9.9999	None	separate Basic Unit.         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate         Base Rate
Mean Quantity <sub>commodity</sub>	<sup>ij</sup> = Mean Quantity <sub>commodityj</sub> WHERE Revenue Lookup Rate <sub>commodityj</sub> = Base Rate <sub>commodityj</sub>						separate Basic Unit.         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate =
	<ul> <li><sup>j</sup> = Mean Quantity <sub>commodityj</sub> WHERE Revenue Lookup Rate <sub>commodityj</sub> = Base Rate <sub>commodityj</sub></li> <li><sup>n</sup> = Standard Deviation Quantity <sub>commodityj</sub> WHERE Revenue <sub>j</sub> = Lookup Rate <sub>commodityj</sub> = Base Rate <sub>commodityj</sub></li> </ul>	Revenue Lookup Rate <sub>commodityj</sub>	Internal		9.9999	None	separate Basic Unit.         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate         Base Rate
		Revenue Lookup Rate <sub>commodityj</sub> Base Rate <sub>commodityj</sub> Standard Deviation Quantity	Internal ADM		9.9999 9.9999	None None	separate Basic Unit.         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate         Edit with ADM Combo Revenue Factor, "A01030".         Edit with ADM Combo Revenue Factor, "A01030".         Edit with ADM Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030".         Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Revenue

	Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley				
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>			
Adjusted Mean Quantity	<u>Calculations</u> = Approved Yield <sub>commodityj</sub> * Mean Quantity <sub>commodityj</sub> / 100	<u>Name</u> Adjusted Mean Quantity <sub>commodityj</sub>	<u>Number</u> Internal	<u>Number</u>	<u>Format</u> 9999999.99999999999	Round to 8 decimals.	Rules		
commodityj		Approved Yield commodityj	P11	46	99999999.99	None			
Adjusted Standard Deviation Quantity	Approved Yield <sub>commodityj</sub> * Standard Deviation Quantity <sub>commodityj</sub> / 100	Adjusted Standard Deviation Quantity <sub>commodityj</sub>	Internal		9999999999.99999999	Round to 8 decimals.			
commodityj	Standard Deviation Quantity commodity / 100	Approved Yield commodityj	P11	46	99999999.99	None			
LnVariance <sub>commodityj</sub>	= In((Price Volatility Factor <sub>commodityj</sub> )^2 + 1)	Log Variancecommodityj (LnVar)	Internal		999999.999999999	Round to 8 decimals.			
		Price Volatility Factor <sub>commodityj</sub>	ADM		9.99	None	Edit with ADM Price, "A00810".		
LnMean <sub>commodityj</sub>	= In(Projected Price <sub>commodityj</sub> ) – LnVariance <sub>commodityj</sub> / 2	log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.99999999	Round to 8 decimals.			
		Projected Price <sub>commodityj</sub>	ADM		99999.9999		Edit with ADM Price, "A00810".		
Yield Draw Quantity commodityj Sequence Number	= Yield Draw Quantity <sub>commodity</sub>	Yield Draw Quantity	ADM		\$99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".		
Price Draw Quantity commodityj Sequence Number	= Price Draw Quantity <sub>commodity</sub>	Price Draw Quantity	ADM		\$99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".		

					Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	ction with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum <u>Field</u>	<u>Record</u>	<u>Field</u>	0078 Sunflower 0081 Soybeans 0091 Barley <u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		9999999999.999999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.
		Coverage Level Percent (covlvl)	P14	34	9.9999	None	
	500 all Commodities	Approved Yield <sub>commodityj</sub> (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit.
	$ \sum_{i=1}^{S} Round(MAX(0,covlvl * ( \sum_{j=1}^{S} Ay_{commodityj} * \sum_{j=1}^{j=1} Acres_{commodityj} * MAX(ProjPrice_{commodityj}, MIN(2 * ProjPrice_{commodityj}, e^{(Pricecommodityji * State)} $	Reported Acreage <sub>commodityj</sub> (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit.
Simulated Revenue Protection Losses Whole = Farm	SQRT(LnVarcommodityj) + LnMeancommodityj)	Projected Price <sub>commodityj</sub> (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price for each Commodity/Acreage report line in the Whole Farm Unit.
	j= AdjStdDev <sub>commodityj</sub> + AdjMean <sub>commodityj</sub> )) * MIN(2	Price Draw Quanity <sub>commodityj</sub> i (Price)	ADM		\$99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.
	* ProjPrice <sub>commodity</sub> ; e <sup>(pricecommodity</sup> ); * SQRT(LnVarcommodity) + LnMeancommodity)) *	Log Variance <sub>commodityj</sub> (LnVar)	Internal		999999.999999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
	(Acres <sub>commodityj</sub> )), <b>12</b> )	log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.999999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.
	, v	Yield Draw Quantity <sub>commodityj</sub> i (Yield)	ADM		\$99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
		Adjusted Standard Deviation Quantity <sub>commodityj</sub> (AdjStnDev)	Internal		9999999999,99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
		Adjusted Mean Quantity <sub>commodityj</sub> (AdjMean)	Internal		999999.9999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

		•	Reinsurance Year: 2011       creage     Version: Approved							
Insurance Plan Code	01 Yield Protection	02 Revenue Protection	Revenue Protection 03 Revenue Protection with Harvest Price Exclusion							
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice Calculations	0021 Cotton 0041 Corn 0051 Grain Sorghum <u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	0078 Sunflower 0081 Soybeans 0091 Barley <u>Field</u> Format	<u>Field</u> Rounding	Rules			
		Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		999999999999999999999999999999	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 (covlvl)	P14	34	9.9999	None				
	500 all commodities Σ <b>Round(</b> MAX (0, covIvI * Σ (AY <sub>commodityj</sub> *	Approved Yield <sub>commodityj</sub> (AY)	P11	46	999999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit.			
Simulated Revenue Protection Harvest Price	i=1 j= ProjPrice <sub>commodityj</sub> * Acres <sub>commodityj</sub> ) - all commodities = ∑ MAX(0, (Yield <sub>commodityji</sub> *	Reported Acreage <sub>commodityj</sub> (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27 Reported Acreage. Reported Acreage for each Commodity/Acreage repor line in the Whole Farm Unit.			
Excluded Losses Whole Farm		Projected Price <sub>commodityj</sub> (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price for each Commodity/Acreage report line in the Whole Farm Unit.			
	SQRT(LnVarcommodityj) + LnMeancommodityj)) * (Acres <sub>commodityj</sub> )), <b>12)</b>	Yield Draw Quantity <sub>commodityj</sub> i (Yield)	ADM		\$99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Adjusted Standard Deviation Quantity <sub>commodityj</sub> (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Adjusted Mean Quantity <sub>commodityj</sub> (AdjMean)	Internal		999999.9999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Price Draw Quanity <sub>commodityj</sub> i (Price)	ADM		\$99.999999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.			
		Log Variance <sub>commodityj</sub> (LnVar)	Internal		999999.999999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.			
		log Mean <sub>commodityj</sub> (LnMean)	Internal		999999.999999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.			

	Exhibit Number Record Name Record Code	: P11			Reinsurance Year Version Release Date	: Approved : 8/11/2015	
Insurance Plan Code	01 Yield Protection 0011 Wheat	02 Revenue Protection 0021 Cotton			0078 Sunflower	03 Revenue Protecti	on with Harvest Price Exclusion
<u>Commodity Code</u>	0015 Canola 0018 Rice	0041 Corn 0051 Grain Sorghum			0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Revenue Protection Whole Farm Rate	SimRPLossesWF 500 all commodities covIvI * ∑(AY <sub>commodityj</sub> * ProjPrice <sub>commodityj</sub> * j = Acres <sub>commodityj</sub> )	Revenue Protection Whole Farm Rate	Internal		9999999999,99999999	Round to 8 deimals.	
Revenue Protection with Harvest Price Exclusion = Whole Farm Rate	SimRPhpeLossesWF 500 = all commodities covIvI * \$(AY_commodityj * ProjPrice_commodityj * j = Acres_commodityj)	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999,99999999	Round to 8 deimals.	
	equals Revenue Protection, "02": = Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None	
	equals Revenue Protection with Harvest Price Exclusion, "03" Revenue Protection with Harvest Price Exclusion Whole Farm Rate	: Whole Farm Base Premium Rate	Internal		9999999999.99999999	None	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: Version: Release Date:	Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	ction with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 8: Premium Rate	e equals Whole Farm Unit, "WU":						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
Premium Rate	MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole	Premium Rate	Internal		99999999999, 99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustment to be used in the computation of the Premium Rate for Whole Farm Unit.
		Total Reported Acreage	Internal		99999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.

Commodity Code	0011 Wheat 0021 Cotton		Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015 03 Revenue Protection with Harvest Price Exclusion 0078 Sunflower 0081 Soybeans				
	0018 Rice Calculations	0051 Grain Sorghum <u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	0091 Barley Field Format	<u>Field</u> Rounding	Rules
Premium Rate =	DES NOT EQUAL Whole Farm Unit, "WU": MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		9999999999,99999999	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 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 O Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add O Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Insurance Option Code = "SR" (Short Rate) and Insurance Plan Code equals 02 or 03 then the Capped Revenue Add On Factor must also be adjusted by th

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year Version Release Date	: Approved	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
Commodity Code	0015 Canola	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 9: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount						
		Preliminary Total Premium	Internal		99999999999	Round to whole number.	
Preliminary Total Premium	Premium Liability Amount * Premium Rate * Experience Factor * Premium Surcharge Percent	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plar Code Yield Protection, "01".
	-	Premium Surcharge Percent					Use when the Approved Yield Had a Cup or Surcharge applied.
	Preliminary Total Premium * Multiple Commodity Adjustment	Total Premium Amount	P11	89	99999999999	Round to whole number.	
Total Premium Amount	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	87	99999999999	Round to whole number.	
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	90	99999999999	Round to whole number.	

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11		Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0078 Sunflower				
Commodity Code	0015 Canola	0041 Corn			0081 Soybeans				
	0018 Rice	0051 Grain Sorghum			0091 Barley				
	<u>Calculations</u>	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules		
lalting Barley Options M/	A & MB						If either the Malting Barley Option A or Malting Barley option B is chosen, a new record(s) will ne to be prepared for this endorsement. These reco should meet the following criteria: 1) The acreage records for the MA or MB records should be less than or equal to the acreage of the base offer 2) The Base Offer will not have the MA/MB optio returned in the option field 3) The Acreage records with the MA or MB option will have the MA or MB option indicated in the option Field.		
							Malting Barley Option A Requirements: To qualify for this option, the producer must: 1) Provide acceptable Malting Barley sales records for at least the 4 most recent Commodity Years ar the number of acres planted to malting varieties. 2) If produced under a contract or price agreement copy of the current contract or price agreement m be provided on or before the acreage reporting da if the additional value price from the contract/pric agreement is to be used for determining liability.		
							Malting Barley Option B Requirements: To qualify for this option, the producer must: 1) Have planted Malting Barley for at least one of three Commodity Years directly preceding the previous Commodity Year 2) Sold at least 75% of the contracted amount for Commodity Year such contract was applicable 3) Provide a copy of the prior contract and acceptable records of sales.		

		-								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	ction with Harvest Price Exclusion			
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley					
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
Approved Yield =	Approved Yield calculated in accordance with the Basic Provisions OR $\Sigma$ (Number of Bushels / Reported Acreage) / $\Sigma$ number of years	Approved Yield	P11	46	9999999999.99		According to the Malting Barley Price and Quality Endorsement, the Approved Yield can be based on either the procedures established in the Basic Provisions, or by averaging the yields required to me the qualifications for Option A.			
Premium Guarantee Per	Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		9999999999.99	Round to 1 decimals.	Common Crop Insurance Policy definition 'producti guarantee (per acre)'.			
Acre Amount	- Approved field * Coverage Level Percent	Approved Yield Coverage Level Percent	P11 P14	46 34	999999999.99 9.9999	None None				
Price Election Amount =	: Additional Value Price	Price Election Amount	Internal		9999.9999	None	<ul> <li>Price Election Amount will be set equal to the Additional Value Price. The Additional Value price is the difference between the contract price and regu Barley's Projected Price or the additional value price provided in the ADM if the contract price is not use 1) The Contract Price: a) The sale price per bushel established in the contract or price agreement less 1 projected price for Barley. b) The amount per bush (not including discounts or incentives) above the fe- barley price that is determined at a later date, provided the method of determining the price is specified in the contract or price agreement. c) If th contract or price agreement has a variable price option, the price OR the method of determining a price that will be treated as the sale price.</li> <li>2) The additional Value price indicated in the actuar documents: a) if there is no malting barley contract The contract or price agreement was not provided the the acreage reporting date.</li> <li>3) The additional Value price: a) For Option A WILL NOT EXCEED \$1.25. b) For Option B WILL NOT EXCEED \$2.00.</li> </ul>			

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015				
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion	
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley			
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
Reported Acreage (Record 2) =	$\begin{array}{l} \mbox{MIN(Total Reported Acreage, Malting Barley Contract 1} \\ \mbox{Bushels / Approved Yield)} \\ \mbox{MIN(Total Reported Acreage - Reported Acreage for Record 1, Malting Barley Contract 2 Bushels / Approved Yield)} \\ MIN(Total Reported Acreage - $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	Reported Acreage	Internal			None	There may need to be multiple record is there are multiple contracts and/or there are more acres insured to yield more bushels than the contract(s) call for. Acreage in excess of contracted acreage will be insured at the additional value price on the actuarial documents. If there is not enough reported acres to support all of the contracts, Insurance will be limited to what the total reported acreage will support.	
Premium Guarantee Per Acre Amount =	Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	Round to 1 decimals.	Determine the Premium Guarantee Per Acre Amount and the Guarantee Per Acre Amount <u>for each record</u> . Common Crop Insurance Policy definition 'production guarantee (per acre)'.	

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year Version Release Date	Approved		
Insurance Plan Code	01 Yield Protection	02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion						
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley			
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
	Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		9999999999.99	Round to 1 decimals.	Prevented Planting does not apply to Malting Barley Option A or Malting Barley Option B records.	
	Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		999999999.99	Round to 2 decimals.		
Total Guarantee Amount =	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	97	999999999.99	Round to 2 decimals.		
Premium Liability Amount =	Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		9999999999	Round to whole number.		
Liability Amount =	- Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	88	9999999999	Round to whole number.		

Insurance Plan Code	0011 Wheat 0021 Cotton			Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015 03 Revenue Protection with Harvest Price Exclusion 0078 Sunflower 0081 Soybeans				
	0018 Rice	0051 Grain Sorghum Field	Record	Field	0091 Barley <u>Field</u>	Field		
Section 11: Premium Rate	Calculations	Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	<u>Rounding</u>	Rules	
Premium Rate	MIN(.999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		99999999999,99999999	Round to 8 decimals.	<ul> <li>Premium Rate is capped at 0.99900000.</li> <li>To Determine the Premium Rate for the Malting Barley Option Records: <ol> <li>Use the Rate Yield as determined under normal procedures.</li> <li>Process the Rate Yield through section 2 of these procedures as if it was a normal Yield Protection Plan of Insurance using the rating components for the regular Barley offer.</li> <li>Find the Basic Unit Discount Factor to be applied later from section 2 of these procedures as if it was a normal Yield Protection Plan of Insurance</li> <li>Find the applicable Malting Barley Option Factor to be applied later from section 4. This will be the only option factor applied to a Malting Barley record.</li> <li>Sections 5, 6, 7 are not applicable for MA/MB records.</li> </ol> </li> </ul>	
		Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999			
		Additive Optional Rate Adjustment Factor	Internal		999999.9999			

Premium       Factor * Premium Rate Surcharge Percent       P11       S1       9.999       None       Code Yield Protection, "01".         Premium Rate Surcharge Percent       Image: Code Yield Protection, "01".       Premium Rate Surcharge Percent       Image: Code Yield Protection, "01".         Total Premium Amount       Preliminary Total Premium * Multiple Commodity Adjustment Factor       Total Premium Amount       P11       89       999999999       Round to whole number.       Image: Code Yield Protection, "01".         Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Percent       ADM       999999999       None       Edit with ADM Subsidy Percent, "A00070".         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount - Subsidy Amount       P11       90       999999999       Round to whole number.       Information (Approved Yield, Reported Acre Insured Share Percent) will be obtained for number.         Cottonseed Endorsement Option 'SE'       Subsidy Amount SUBSID Share Percent) will be obtained for point with the Cottonseed record. CAT does not subside the Cotton seed record. CAT does not sub the Cotton seed recor											
Become Name:         Warries and Protection         Warries and Protection         Release bit Vi2013           Immander Value         021 Conton         021 Conton         007 Sumflower         007 Sumflower           Commodity Code         001 What         001 Conton         007 Sumflower         007 Sumflower           001 Since         001 Since         001 Since         001 Since         001 Since           001 Since         001 Since         001 Since         001 Since         001 Since           001 Since         001 Since         001 Since         001 Since         001 Since           Calculation         Mame         Mame         Rade						Doingurana- Va-	. 2011				
Instruct Code:     Prefix     Release Data Code:     OI 1/1/2013       Instruct Plan Code Conmodity Code 0011 Wheat 0013 Circle     0021 Cutori 0021 Cutori 002				Version: Approved							
Insurance Plan Code         01 Yield Protection         02 Revenue Protection         03 Revenue Protection with Harvest Price Exclusion           Commodity Code         003 Carola         001 Coron         003 Service         003 Service         003 Service           Calculations         001 Caron         003 Service         003 Service         003 Service         003 Service           Calculations         001 Service         001 Service         001 Service         001 Service         001 Service           Preliminary Total         Premium Anount, Subsidy Anount, and Producer Premium Anount         Internal         9999999999         Round to whole number.         Experience Factor         P11         51         9.999         None         Code Yield Protection, "01".           Total Premium Anount         Premium Rate Surcharge Percent         Internal         9999999999         None         Edit with ADM Subsidy Percent         Code Yield Protection, "01".           Total Premium Anount         Factor         P11         89         9999999999         None         Edit with ADM Subsidy Percent.         Edit with ADM Subsidy Percent, "Noncort".           Subsidy Anount = Total Premium Anount * Subsidy Percent         Subsidy Anount         P11         87         9999999999         None         Edit with ADM Subsidy Percent, "Noncort" Insured Starc Percent, "Noncort".			•								
Description         Odd 1 Wheat         Odd 1 Cortion         Odd 8 Sufflower           Commedity Code         Odd 5 Canola         Odd 1 Cortion         Odd 8 Cortion         Odd 8 Cortion           Odd 1 Cortion         Odd 1 Cortion         Odd 1 Cortion         Odd 8 Cortion         Odd 8 Cortion           Odd 5 Canola         Odd 1 Cortion         Odd 8 Cortion         Odd 8 Cortion         Odd 8 Cortion           Odd 1 Cortion         Odd 1 Cortion         Odd 8 Cortion         Number         Field 4         Field 4         Field 7         Record 10 Cortion 10 Cort		Record Code:	711			Release Dati	. 8/11/2015				
Commodity Code 0013 Briley 0013 Briley 0014 Commodity Algister Preliminary Total Premium Andust * Sperience Factor Premium Brite Surcharge Percent         Field Number Preliminary Total Premium Rate * Sperience Factor * Premium Rate Surcharge Percent         Internal         Out         Sperience Factor is only applicable for two Code Yield Protection, '01'.           Total Premium Brite * Sperience Premium Brite * Subsidy Amount * Premium Rate * Subsidy Amount Pretiminary Total Premium Amount * Subsidy Percent         Total Premium Amount Pretiminary Total Premium Amount * Subsidy Percent Subsidy Amount * Subsidy Percent         P11         89         99999999 99999999 None         Bit With ICE Multiple Comping * Doubsidy None         Edit with ICE Multiple Comping * Doubsidy Protocer Premium Amount * Subsidy Percent, * ADOM         99999999 99999999 None         Bit With Ce Multiple Comping * Doubsidy None         Edit with ADM Subsidy Percent, * ADOMOTO*.           Producer Premium Amount * Subsidy Amount * Subsidy Amount * Subsidy Percent, * Subsidy Percent, * Subsidy Percent, * ADOMOTO*.         999999999 90 999999999 None         Round to whole Internal Amount * Subsidy Percent, * ADOMOTO*.           Another * Subsidy Cator Ster         Modified Yield         Internal Internal         9999999999 90 999999999 None	Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	ction with Harvest Price Exclusion			
Oli 18 RiceOUS1 Grain SorghumOUS1 Grain SyrghumOUS1 BarleyCalculationsField NameRunner NumberFleid NumberGound to wholeRulesexton 12: Total Premium Amount, Subsidy Amount, and Producer Premium AmountPreliminary Total Premium Rate * Experience Premium Factor * Premium Rate * Experience Premium Rate * Experience Factor * Premium Amount * Subsidy Amount * Multiple Commodity Adjustment Factor * Factor * Premium Amount * Subsidy Premium * Multiple Commodity Adjustment Factor * Factor * Predium Amount * Subsidy Premium * Multiple Commodity Adjustment Factor *NoneEdit with ICE Multiple Commodity Adjustment Factor *NoneEdit with ADM Subsidy Prement number.Subsidy Amount = Total Premium Amount * Subsidy Prement Amount * Subsidy Prement Mondified Vield = Premium Amount * Subsidy Amount *P118799999999 99999999None *Edit with ADM Subsidy Prement, *A00070".Producer Premium Amount * Subsidy Amount * Subsidy Amount * Mondified Vield = Approved Yield * Option Conversion Factor *P1180999999999None *Edit with ADM Subsidy Prement, *A00070".Modified Vield = Approved Yield * Option Conversion Factor *Modified Yield *P11909999999999None *None *None *None * <td< td=""><td></td><td>0011 Wheat</td><td>0021 Cotton</td><td></td><td></td><td>0078 Sunflower</td><td></td><td></td></td<>		0011 Wheat	0021 Cotton			0078 Sunflower					
Eled         Record         Held         Record         Held         Field         Rounding         Rounding         Rounding           ction 12: Total Premium Amount, Subsidy Amount, and Producer Premium Amount         Preliminary Total         Premium Eability Amount * Premium Rate * Experience         Preliminary Total         999999999         None         Experience Factor is only applicable for Insur- Code Yield Protection, "01."           Total Premium Amount         Preliminary Total Premium * Multiple Commodity Adjustment Factor * Premium Amount * Subsidy Percent         Total Premium Amount         P11         89         999999999         Round to whole number.         Experience Factor is only applicable for Insu- Code Yield Protection, "01."           Total Premium Amount * Fremium * Multiple Commodity Adjustment Factor         Total Premium Amount * Subsidy Percent         Total Premium Amount * Subsidy Amount         P11         89         999999999         None         Edit with ICE Multiple Cropping, "D00063".           Subsidy Amount = Total Premium Amount * Subsidy Percent         Subsidy Amount         P11         87         999999999         Round to whole number.         Edit with ADM Subsidy Percent, "A00070".           Amount * Total Premium Amount * Subsidy Amount         Preducer Premium Amount * Subsidy Amount         P11         90         9999999999         Round to whole number.         Internation (Approved Yield, Reported Arcr Insured Share Percercot) will be obtained fror Insu	Commodity Code	0015 Canola	0041 Corn			0081 Soybeans					
Ideal     Name     Name     Number     Format     Bounding     Bounding       ction 12: Total Premium Amount, Subsidy Amount, and Producer Premium Ante * Experience Premium Factor * Premium Liability Amount * Premium Rate * Experience Premium Factor * Premium Rate Sucharge Percent     Internal     Internal     9999999999     Round To whole number.     Experience Factor via only applicable for insu- Code Yield Protection, "0.1".       Total Premium Amount * Premium Rate Sucharge Percent     Total Premium Amount, * Preliminary Total Premium * Multiple Commodity Adjusternet Factor     Total Premium Amount     P1     8.0     999999999     Round To whole number.     Experience Factor via only applicable for insu- Code Yield Protection, "0.1".       Total Premium Amount * Total Premium * Multiple Commodity Adjusternet Factor     Total Premium Amount     P1     8.0     999999999     Round To whole number.     Edit with ICE Multiple Compolity."Comodity."Com None     Edit with ADM Subsidy Percent.       Subsidy Amount = Total Premium Amount * Subsidy Amount     Producer Premium Amount * Subsidy Amount     P1     8.0     999999999     Round To whole number.     Edit with ADM Subsidy Percent, "A00070".       Producer Premium Amount * Subsidy Amount     Producer Premium Amount * Subsidy Amount     P11     9.0     9.9999     Round To whole number.     Information (Approved Yield, Reported Arr instructer Code Vield number.       Attornet Stress     Subsidy Amount * Del Premium Amount * Subsidy Amount     P1     9.0     <		0018 Rice	0051 Grain Sorghum			0091 Barley					
Pertor       Premium Amount, Subsidy Amount, and Producer Premium Mate * Experience       Preliminary Total Premium       Internal       9999999999       Round to whole number.         Preliminary Total       Fremium Liability Amount * Premium Rate Surcharge Percent       Preliminary Total Premium Rate Surcharge Percent       Preliminary Total Premium Rate Surcharge Percent       None       Experience Factor sonly applicable for Insurface Percent         Total Premium Amount *       Preliminary Total Premium * Multiple Commodity Adjustment Factor       Total Premium Amount       P11       89       999999999       Round to whole number.         Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount = Total Premium Amount * Subsidy Percent       ADM       9.999       None       Edit with ICE Multiple Compolics."         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount * P11       90       9.999       None       Edit with ICE Multiple Compolics."         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount * P11       90       9.999       None       Edit with ICE Multiple Compolics."         Outconseed Endorsement Option 'SE'       Subsidy Percent       ADM       9.999       None       Edit with ADM Subsidy Percent, "A00070".         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       Information (Approved Yield, Reported Archive			Field			Field					
Preliminary Total       Premium       Round to whole number.       Round to whole number.         Premium       Factor * Premium Rate Surcharge Percent       P11       51       9.999       None       Experience Factor is only applicable for Insu- Code Yield Protection, "01".         Total Premium Amount       Preliminary Total Premium * Multiple Commodity Adjustment Factor       Total Premium Amount       P11       89       999999999       None       Edit with ICE Multiple Cropping, "D00063".         Subsidy Amount       = Total Premium Amount * Subsidy Percent       Subsidy Amount       P11       87       999999999       Round to whole number.       Multiple Commodity Adjustment Factor       ICE       9999.999       None       Edit with ICE Multiple Cropping, "D00063".         Subsidy Amount       = Total Premium Amount * Subsidy Percent       Subsidy Amount       P11       87       999999999       Round to whole number.       None       Edit with ADM Subsidy Percent, "A00070".         Producer Premium Amount       = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.       Information (Approved Yield, Reported Acre Insured Share Percent) will be obtained from und the Cottonseed cord. CAT does not P11 record and Ret Yeld from P15 record.         Modified Yield       Approved Yield * Option Conversion Factor       Modified Yield       Internal			Name	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules			
Preliminary Total Prenium         Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent         Internal         999999999         number.         Experience Factor is only applicable for usu Code Yield Protection, "01".           Total Premium Amount Factor         Preliminary Total Premium * Multiple Commodity Adjustment Factor         Total Premium Amount Premium Amount         P11         89         999999999         Round to whole number.         Round to whole number.           Subsidy Amount = Total Premium Amount * Subsidy Percent Amount = Total Premium Amount - Subsidy Percent         Subsidy Amount         P11         87         9999999999         Round to whole number.	ction 12: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount	1	ī				_			
Premium Rate Surcharge Percent       Image: Surcharge Percent       Image: Surcharge Percent       Premium Amount       P11       89       999999999       Round to whole number.       Round to whole number.         Total Premium Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Percent       ADM       999999999       None       Edit with ICE Multiple Cropping, "D00063".         Producer Premium Amount * Subsidy Percent       Subsidy Percent       ADM       999999999       None       Edit with ADM Subsidy Percent, *A00070".         Amount = Total Premium Amount * Subsidy Amount       Producer Premium Amount * Subsidy Amount       Producer Premium Amount * Subsidy Percent, *A00070".       None       Edit with ADM Subsidy Percent, *A00070".         Amount = Total Premium Amount * Subsidy Amount * Subsidy Amount * Total Premium Amount * Subsidy Percent, **       Producer Premium Amount * Subsidy Percent, *A00070".       None       Edit with ADM Subsidy Percent, *A00070".         Amount = Total Premium Amount * Subsidy Amount * Total Premium Amount * Subsidy Amount *       Producer Premium Amount * Subsidy Percent, **       Subsidy Percent, **       Subsidy Percent, **       None       Edit with ADM Subsidy Percent, **       None       None       None       None       None       None       None       N			Preliminary Total Premium	Internal		99999999999					
Total Premium Amount       Preliminary Total Premium * Multiple Commodity Adjustment       Total Premium Amount       P11       89       999999999       Round to whole number.         Multiple Commodity Adjustment Factor       ICE       9999.999       None       Edit with ICE Multiple Comping. "D00063".         Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount       P11       87       999999999       Round to whole number.         Producer Premium Amount * Subsidy Amount       Producer Premium Amount - Subsidy Amount       P11       90       999999999       Round to whole number.         Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.         Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       9999999999       Round to whole number.         Insured Share Percent will be obtained from P15 record and Rate Yield from P15	Preliminary Total Premium	Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance F Code Yield Protection, "01".			
Total Premium Amount     Preliminary Total Premium * Multiple Commodity Adjustment Factor     Total Premium Amount     P11     89     999999999     number.       Subsidy Amount = Total Premium Amount * Subsidy Percent     Subsidy Amount     P11     87     999999999     Round to whole number.     Edit with ICE Multiple Cropping, "D00063".       Producer Premium Amount = Total Premium Amount - Subsidy Amount     P10     87     999999999     Round to whole number.     Edit with ADM Subsidy Percent, "A00070".       Producer Premium Amount = Total Premium Amount - Subsidy Amount     Producer Premium Amount     P11     90     999999999     Round to whole number.     Edit with ADM Subsidy Percent, "A00070".       Producer Premium Amount = Total Premium Amount - Subsidy Amount     Producer Premium Amount     P11     90     9999999999     Round to whole number.     Information (Approved Yield, Reported Acre insured Share Percent) will be obtained from P11 record and Rate Yield from P15 record with the Cottonseed. Unit Structure Code V not apply to Cottonseed.       ection 13: Liability Calculation     Edit Vield from P15 record Approved Yield     Modified Yield     Internal     99999999.     Round to whole Number.     P10 O Cottonseed.       Modified Yield = Approved Yield * Option Conversion Factor     Modified Yield     P11     46     9999999.99     None     Fidit with ADM Option Rate, "A01060".       Option Conversion Factor     Approved Yield Approved Yield Approved Yield Applo			Premium Rate Surcharge Percent								
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       87       999999999       None       Edit with ADM Subsidy Percent, "A00070".         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount - P11       90       999999999       None       Edit with ADM Subsidy Percent, "A00070".         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       None       Edit with ADM Subsidy Percent, "A00070".         pottonseed Endorsement Option 'SE'       Producer Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       None       Edit with ADM Subsidy Percent, "A00070".         pottonseed Endorsement Option 'SE'       Information (Approved Yield, Reported Arreginser Percent) will be obtained from P11 record Alate Yield from D15 record.       Information (Approved Yield, Reported Arreginser Percent) will be obtained from P11 record Alate Yield from D15 record.       Information (Approved Yield, Reported Arreginser Percent) will be obtained from P11 record Alate Yield from D15 record.         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       Internal       99999999.99       None       Form Cotton P11 record.         <		_ Preliminary Total Premium * Multiple Commodity Adjustment	Total Premium Amount	P11	89	99999999999					
Subsidy Amount = Total Premium Amount * Subsidy Percent       Subsidy Amount       P11       87       99999999       number.         Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.         Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.         Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.         ottonseed Endorsement Option 'SE'       From Cotton Set       Subsidy Cottonseed.       Information (Approved Yield, Reported Acreation P11 record and Rate Yield from P15 record with the Cottonseed record. CAT does not a P11 record and Rate Yield from P15 record.         ection 13: Liability Calculation       Modified Yield       Internal       99999999.99       Round to whole Number.         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       P11       46       9999999.99       None       From Cotton P11 record.         Option Conversion Factor       ADM       9.9999       None       Form Cotton P11 record.       Cotton P11 record.	Total Premium Amount	Factor		ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".			
Producer Premium Amount = Total Premium Amount - Subsidy Amount       Producer Premium Amount       P11       90       999999999       Round to whole number.         Information (Approved Yield, Reported Acre Insured Share Percent) will be obtained from P11 record and Rate Yield from P15 record a with the Cottonseed record. CAT does not a Plan 01 Cottonseed. Unit Structure Code 'V not apply to Cottonseed.         Modified Yield = Approved Yield * Option Conversion Factor         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       P11       46       9999999.99 99999.99       None       From Cotton P11 record.         Option Conversion Factor       ADM       9.9999       None       Edit with ADM Option Rate, "A01060".	Subsidy Amount =	= Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	87	99999999999					
ottonseed Endorsement Option 'SE'       Information (Approved Yield, Reported Action P11 record and Rate Yield from P15 record with the Cottonseed record. CAT does not a Plan 01 Cottonseed. Unit Structure Code 'V not apply to Cottonseed.         ection 13: Liability Calculation       Modified Yield       Internal       99999999.99       Round to whole Number.         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       P11       46       99999999.99       None       From Cotton P11 record.         Option Conversion Factor       ADM       9.9999       None       Edit with ADM Option Rate, "A01060".			Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".			
bottonseed Endorsement Option 'SE'       Insured Share Percent) will be obtained from P11 record and Rate Yield from P15 record with the Cottonseed record. CAT does not a pply to Cottonseed. Unit Structure Code 'W not apply to Cottonseed.         ection 13: Liability Calculation       Modified Yield       Internal       99999999.99       Round to whole Number.         Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       P11       46       9999999.99       None       From Cotton P11 record.         Option Conversion Factor       ADM       9.9999       None       Edit with ADM Option Rate, "A01060".	Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	90	99999999999					
Modified Yield = Approved Yield * Option Conversion Factor       Modified Yield       Internal       99999999.99       Round to whole Number.         Approved Yield * Option Conversion Factor       Approved Yield       P11       46       99999999.99       None       From Cotton P11 record.         Option Conversion Factor       ADM       9.999999.99       None       Edit with ADM Option Rate, "A01060".	ottonseed Endorsement O	pption 'SE'						Information (Approved Yield, Reported Acreage, Insured Share Percent) will be obtained from Cotto P11 record and Rate Yield from P15 record associal with the Cottonseed record. CAT does not apply to Plan 01 Cottonseed. Unit Structure Code 'WU' doe not apply to Cottonseed.			
Modified Yield = Approved Yield * Option Conversion Factor     Modified Yield     Internal     99999999.99     Number.       Approved Yield     P11     46     99999999.99     None     From Cotton P11 record.       Option Conversion Factor     ADM     9.999999.99     None     Edit with ADM Option Rate, "A01060".	ection 13: Liability Calcula	ition									
Approved Yield     P11     46     99999999.99     None     From Cotton P11 record.       Option Conversion Factor     ADM     9.9999     None     Edit with ADM Option Rate, "A01060".	NAC JEE - JAC - 1		Modified Yield	Internal		999999999.99					
Round to whole	iviodified Yield :	= Approved field " Option Conversion Factor	Approved Yield	P11	46	99999999.99	None	From Cotton P11 record.			
			Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".			
	Premium Guarantee Per Acre Amount	= Modified Yield * Coverage Level Percent		Internal		9999999999.99					
Coverage Level Percent P14 34 9.9999 None			Coverage Level Percent	P14	34	9 9999	None				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	on with Harvest Price Exclusion				
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley						
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules				
Guarantee Per Acre	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P":	Guarantee Per Acre Amount	Internal		999999999.99	Round to whole number.					
Amount	= Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".				
Price Election Amount	= Projected Price * Price Election Percent	Price Election Amount	Internal		9999.9999	Round to nearest whole cent [\$9.99].	Cottonseed will equal the Projected Price from 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.				
Premium Total Guarantee	_ Premium Guarantee Per Acre Amount * Price Election	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.					
Amount	_ Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None					
		Reported Acreage	P11	52	99999999.99	None	From Cotton P11 record.				
Total Guarantee Amount =	_ Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	97	999999999.99	Round to 2 decimals.					
	Reported Acreage	Price Election Amount	Internal		9999.9999	None					
		Reported Acreage	P11	52	999999.99	None	From Cotton P11 record.				
Premium Liability Amount =	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		99999999999	Round to whole number.					
		Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.				
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	88	9999999999	Round to whole number.					
		Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.				

	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015							
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion					
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley							
	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules					
ection 14: Premium Rate												
	MIN(.999, Base Premium Rate * Unit Structure Discount = Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate Multiplicative Optional Rate	Internal		99999999999.99999999	Round to 8 decimals.	<ul> <li>To Determine the Premium Rate for the Cottonseed records:</li> <li>1) Use the Rate Yield as determined under normal procedures.</li> <li>2) Process the Rate Yield through section 2 of these procedures using the rating components for regular Cotton offer.</li> <li>3) Find the Unit Structure Discount Factor to be applied later from section 3 of these procedures for regular Cotton offer.</li> <li>4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton offer.</li> <li>5) Sections 5, 6, 7 are not applicable for Cottonseed records.</li> </ul>					
		Adjustment Factor	Internal		999999.9999							
		Additive Optional Rate Adjustment Factor	Internal		999999.9999							
ection 15: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount				1	I						
		Preliminary Total Premium	Internal		99999999999	Round to whole number.						
Preliminary Total Premium	Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Pla Code Yield Protection, "01".					
		Premium Rate Surcharge Percent										
	_ Preliminary Total Premium * Multiple Commodity Adjustment	Total Premium Amount	P11	89	99999999999	Round to whole number.						
Total Premium Amount =	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	87	99999999999	Round to whole number.						
-	-	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".					
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	90	99999999999	Round to whole number.						

	Exhibit Number Record Name	Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11		Reinsurance Year: 2011 Version: Approved Release Date: 8/11/2015					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Prote	tion with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0078 Sunflower				
<u>Commodity Code</u>	0015 Canola	0041 Corn			0081 Soybeans				
	0018 Rice	0051 Grain Sorghum			, 0091 Barley				
		Field	Record	Field	Field	Field			
	Calculations	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules		
Written Agreement Rate I	Information								
Section 16: Written Agree	ement Rate Calculation						The following information will be used only when a applicable county program does not exist in the county and written agreement (WA) specifies a Multiplicative Rate, Add-on Rate, or Designated Rat This would include situations where a written agreement (WA) for a type or practice not containe in the Actuarial materials.		
When WA specifies a Mult	tiplicative Rate:								
Reference Rate	= (Round(Reference Rate + Fixed Rate) * Written Agreement Multiplicative Rate Adjustment,3) - Fixed Rate	Reference Rate	Internal		9.9999	None			
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None			
		Prior Year Reference Rate	Internal		9.9999	None			
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
	(Round(Reference Rate + Fixed Rate) * Written Agreement = Multiplicative Rate Adjustment,3) - Fixed Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
Prior Year Reference Rate		Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None			
When WA specifies a Add-	-on Rate:		1		ł	ł			
Fixed Rate		Fixed Rate	Internal		9.9999	None			
	= Fixed Rate + Written Agreement Add-on Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Add-on Rate	WA		9.9999	None			
Prior Year Fixed Rate	= Fixed Rate + Written Agreement Add-on Rate	Prior Year Fixed Rate	Internal		9.9999	None			
		Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Add-on Rate	WA		9.9999	None			
Vhen WA specifies a Desi	gned Rate:	•		•					
Reference Rate	e = zero (0)	Reference Rate	Internal		9.9999	None			
	te = Designated Rate	Fixed Rate	Internal		9.9999	None			
		Designated Rate	WA		9.9999	None			
Prior Year Reference Rate	e = zero (0)	Prior Year Reference Rate	Internal		9.9999	None			
		Prior Year Fixed Rate	Internal		9.9999	None			

		Exhibit Name: Premium Calculation Exhibit Number: P11-1, Plan 01, 02, 03 Record Name: Acreage Record Code: P11				ear: 2011 on: Approved te: 8/11/2015	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protec	tion with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Prior Year Fixed Rate = Designated Rate		Written Agreement Designated Rate	WA		9.9999	None	
ection 17: Written Agree	The following information will be used when written agreement (WA) modifies a Sub County Rate (High Risk or Map Rate).						
Sub County Rate = Written Agreement Sub County Rate		Written Agreement Sub County Rate	WA		9.9999	None	Replace Sub County Rate if Written Agreement Sub County Rate is lower. Set Sub County Rate to zero if Written Agreement removes Sub County Rate.