Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2014	
Record Name: Acreage	**Version:** Approved	
Record Code: P11	**Release Date:** 9/27/2018	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Liability Calculation						
Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimal.	Common Crop Insurance Policy definition 'production guarantee (per acre)'. Premium Guarantee Per Acre Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Approved Yield	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Coverage Level Percent	P14	34	9.9999	None	For APH Trend the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.
When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Guarantee Per Acre Amount = Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.	Guarantee Per Acre Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
					When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [$9.99]. If result is based on Contract Price for Cotton, Grain Sorghum, Wheat, or specialty type Corn, Soybeans or Barley; round to nearest one hundredth cent ($9.9999).	

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Price Election Amount = Projected Price (or Contract Price) * Price Election Percent	Price Election Amount	Internal		9999.9999	When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one-tenth cent [$9.999]. If result is based on Contract Price for Rice, Sunflowers, or specialty type Canola; round to nearest one hundredth cent ($9.9999). When Commodity Code equals Popcorn, "0043", Dry Beans, "0047", or Dry Peas,"0067" round to nearest one-hundredth cent [$9.9999].	
	Projected Price	ADM		99999.9999		Liability for Yield Protection, "01" allows the producer the opportunity to choose a percentage of the Projected Price. Liability for Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", requires the producer to choose 100 percent of the Projected Price. Edit with ADM Price, "00810".
	Contract Price	P11	50	9999.9999	None	For Yield Protection, "01", Contract Price may be used in lieu of the Projected Price for Cotton, Dry Beans, Dry Peas, Grain Sorghum, Popcorn, Rice, Sunflowers, Wheat, or specialty types of Canola, Corn, Soybean or Barley. For Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", Contract Price may be used in lieu of the Projected Price for Cotton, Dry Beans, Dry Peas, Grain Sorghum, Rice, Sunflowers, Wheat, or specialty types of Canola, Corn or Soybeans. If the insured chooses to use the contract price, the contract price per bushel should be entered in the contract price field. The contracted price will be capped by RMA at a certain percentage over the projected price for certain commodities as specified in the Special Provisions.

9/20/2018

Exhibit Name:	Premium Calculation		
Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
Record Name:	Acreage	Version:	Approved
Record Code:	P11	Release Date:	9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field 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 Amount = Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
	Price Election Amount	Internal		9999.9999	None	
	Reported Acreage	P11	52	99999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.

Exhibit Name: Premium Calculation			
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2014	
Record Name: Acreage		**Version:** Approved	
Record Code: P11		**Release Date:** 9/27/2018	

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Total Guarantee Amount =	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
		Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent		Premium Liability Amount	Internal		9999999999	Round to whole	
		Insured Share Percent	P11	47	9.9999	None	
Liability Amount = Total Guarantee Amount * Insured Share Percent		Liability Amount	P11	91	9999999999	Round to whole number.	
		Insured Share Percent	P11	47	9.9999	None	

Section 2: Base Premium Rate Calculation

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Current Year Yield Ratio = Rate Yield / Reference Amount		Current Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the coverted rate yield from the P15 record with skip row (yield conversion factor) applied.
		Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Prior Year Yield Ratio = Rate Yield / Prior Year Reference Amount		Prior Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the coverted rate yield from the P15 record with skip row (yield conversion factor) applied.
		Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Current Year Rate Multiplier = Current Year Yield Ratio ^ Exponent Value		Current Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.	
		Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".
Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value		Prior Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.	
		Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".

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

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Current Year Base Rate		Current 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 21 for Written Agreement Sub County Rate information.
	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 20 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 20 for Written Agreement Rate Information.
Prior Year Base Rate		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 21 for Written Agreement Sub County Rate information.
	When Rate Method Code is Additive, "A": = Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal		9999.99999999	None	
	When Rate Method Code is Multiplicative, "M": = Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010". See Section 20 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 20 for Written Agreement Rate Information.

		Exhibit Name:	Premium Calculation		
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
		Record Name:	Acreage	Version:	Approved
		Record Code:	P11	Release Date:	9/27/2018

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

	Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Current Year Base Premium Rate		Current Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": = Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8)	Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment).
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
	When Unit Structure code is Enterprise Unit, "EU": = Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Enterprise Unit, 'EU'.
	When Unit Structure code is Whole Farm Unit, "WU": = Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Whole Farm Unit, 'WU'.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

	Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Prior Year Base Premium Rate	**When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":** = Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor, 8)	Prior Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
		Prior Year Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option code "TA" (Trend Adjustment).
		Prior Year Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU".
	When Unit Structure code is Enterprise Unit, "EU": = Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor, 8)	Prior Year Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Enterprise Unit, 'EU'.
	When Unit Structure code is Whole Farm Unit, 'WU': = Round(Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor, 8)	Prior Year Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and Unit Structure Code equal to Whole Farm Unit, 'WU'.
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999)	Base Premium Rate	P11	94	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.	

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 3: Unit Discount Calculation							The appropriate discount factor should be looked up and applied.
When Commodity Code is NOT EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081".							
Revenue Lookup Adjustment Factor	=	**When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU":** Unti Structure Discount Factor	Revenue Lookup Adjustment Factor	Internal		9.99999999	None	
	=	**When the Unit Structure Code is Whole Farm Unit "WU":** Unit Structure Discount Factor for Enterprise Unit"EU"	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 From below for Unit Structures "OU, UA, UD, BU, or EU".

Exhibit Name:	Premium Calculation		
Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
Record Name:	Acreage	Version:	Approved
Record Code:	P11	Release Date:	9/27/2018

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

	Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Unit Structure Discount Factor	**When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":** = Optional Unit Discount Factor	Unit Structure Discount Factor	Internal		9.99999999	None	capped at 1.0
		Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".
	When Unit Structure Code is Basic Unit, "BU": = Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".
	When the Unit Structure Code is Enterprise Unit, "EU": = Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090". Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
When Commodity Code is EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081".							
Revenue Lookup Adjustment Factor	=	**When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":** Unti Structure Discount Factor	Revenue Lookup Adjustment Factor	Internal		9.99999999	None	
			Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 From below for Unit Structure "OU", "UA", or "UD".
	=	**When Unit Structure Code is Basic Unit, "BU":** Basic Unit Discount Factor for 65% Coverage Level	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.
	=	**When the Unit Structure Code is Enterprise Unit, "EU" or Whole Farm Unit "WU":** Enterprise Unit Discount Factor for 65% Coverage Level	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Unit Structure Discount Factor	**When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":** = Optional Unit Discount Factor	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment).
		Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". See Section 19 for Option Code "TA" (Trend Adjustment).
	When Unit Structure Code is Basic Unit, "BU": = Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" by Coverage Level. Basic Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for the unit being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. See Section 19 for Option Code "TA" (Trend Adjustment).
	When the Unit Structure Code is Enterprise Unit, "EU": = Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" by Coverage Level. Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. Unit is not eligible as an enterprise unit if summed planted acres are less than 20 acres or 20% of insured crop acreage. See Section 19 for Option Code "TA" (Trend Adjustment).

Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2014	
Record Name: Acreage	**Version:** Approved	
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0047 Dry Beans 0078 Sunflowers 0051 Grain Sorghum 0081 Soybeans 0067 Dry Peas 0091 Barley

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Section 4: Optional Coverage (Additive "A" and Multiplicative "M")							If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9.
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Rate Adjustment Factor =	**When Rate Method Code is Additive, "A":** ∑ Option Rate * Rate Differential Factor	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". See Section 17 for Option Code "TA" (Trend Adjustment).
Multiplicative Optional Rate Adjustment Factor =	**When Rate Method Code is Multiplicative, "M":** ∑ Option Rate1 * Option Rate2 * Option Rate3...	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
		Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Section 5: Revenue Coverage Add on Rates (Applicable only for Plans 02 and 03)						It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.
Lookup Rate = Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	
	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	From Section 2.
	Revenue Lookup Adjustment Factor	Internal		9.99999999	None	From Section 3.
Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100	Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.	
	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Mean Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
	Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		9999999999.99999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity = Approved Yield * Standard Deviation Quantity / 100	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row cotton, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using Lookup Rate.
LnVar = Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
	Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".
LnMean = Ln(Projected Price or Contract Price) − LnVar / 2	log Mean Quantity (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".
	Contract Price	P11	50	9999.9999	None	Contract price as addressed in Section 1, capped with Max Contract Price from ADM.
Yield Draw Quantity$_{Sequence Number}$ = **For Sequence Number 1 to 500** Yield Draw Quantity	Yield Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030".
Price Draw Quanity$_{Sequence Number}$ = **For Sequence Number 1 to 500** Price Draw Quantity	Price Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		9999999999.99999999999	Round to 12 decimals.	
Simulated Yield Protection Losses = Quantity $\sum\limits_{i=1}^{500}$ **Round(**MAX(0, AY * covlvl - **Round(**MAX(0, Yield$_i$ * AdjStndDev + AdjMean)**,12))**, **12)**	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
	Yield Draw Quantity$_i$ (Yield$_i$)	ADM		S99.999999999	None	
	Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		9999999999.99999999999	Round to 12 decimals.	
Simulated Revenue Protection Losses = Quantity $\sum\limits_{i=1}^{500}$ **Round(**MAX(0, AY * covlvl * **Round(**MAX(ProjPrice, **Round(**MIN(2 * ProjPrice, **Round(**$e^{(Price_i *}$ $^{Round(VLnVar,12) + LnMean)}$**,12)),12)),12)** - (**Round(**MAX(0, Yieldi * AdjStdDev + AdjMean)**,12)** * **Round(**MIN(2 * ProjPrice, **Round(**$e^{(Price_i *}$ $^{Round(VLnVar,12) + LnMean)}$**,12)), 12)))**,12)	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
	Yield Draw Quantity$_i$ (Yield$_i$)	ADM		S99.999999999	None	
	Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

Exhibit Name: Premium Calculation				
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2014		
Record Name: Acreage		**Version:** Approved		
Record Code: P11		**Release Date:** 9/27/2018		

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity $$= \sum_{i=1}^{500} \textbf{Round}(MAX(0, AY * covlvl * ProjPrice - (\textbf{Round}(MAX(0, Yield_i * AdjStdDev + AdjMean)\textbf{,12)} * \textbf{Round}(MIN(2 * ProjPrice, \textbf{Round}(e^{(price_i * \textbf{Round}(VLnVar,12) + LnMean)}, \textbf{12))},\textbf{12)))},\textbf{12)}$$	Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		9999999999.99999999999	Round to 12 decimals.	
	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
	Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Simulated Yield Protection Base Premium = Rate	(Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Simulated Revenue Protection Base Premium = Rate	(Simulated Revenue Protection Losses / 500) / (Approved Yield * Coverage Level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	(Simulated Revenue Protection with harvest Price Exclusion = Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) Effective Coverage Level Percent will replace Coverage Level Percent.
Preliminary Revenue Protection Premium Add = on Rate	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.

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

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

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

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
						will be based on the TA Effective Coverage Level Percent. See next statement. **When TA Option is selected, this section does not apply when the Effective Coverage Level is less than 65%.**
Capping Yield Ratio = Rate Yield / Capping Reference Yield	Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
	Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the coverted rate yield from the P15 record with skip row (yield conversion factor) applied.
	Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Yield Ratio = Rate Yield / Prior Capping Reference Yield	Prior Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
	Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the coverted rate yield from the P15 record with skip row (yield conversion factor) applied.
	Prior Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Capping Rate Multiplier = Capping Yield Ratio ^Capping Exponent Value	Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
	Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Rate Multiplier = Prior Capping Yield Ratio ^Prior Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
	Prior Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Historical Capping Base Rate = **If Rate Method Code = Fixed, "F":** Sub County Rate	Historical Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
If Rate Method Code = Additive, "A": Sub County Rate + (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 21 for Written Agreement Sub County Rate information.
If Rate Method Code = Multiplicative, "M": Sub County Rate * (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Otherwise: (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
If Rate Method Code = Fixed "F": Sub County Rate	Historical Prior Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
If Rate Method Code = Additive, "A": Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050". See Section 21 for Written Agreement Sub County Rate information.

			Exhibit Name:	Premium Calculation			
			Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014	
			Record Name:	Acreage	Version:	Approved	
			Record Code:	P11	Release Date:	9/27/2018	

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Historical Prior Capping Base Rate =	**If Rate Method Code = Multiplicative, "M":** Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise: (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Historical Basic Unit Base Rate =	.9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate)	Historical Basic Unit Base Rate	Internal		999999.99999999	Round to 8 decimals.	

Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2014	
Record Name: Acreage	**Version:** Approved	
Record Code: P11	**Release Date:** 9/27/2018	

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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 * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
		Historical Revenue Protection Base Premium Rate	Internal		9999999999.99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
		Beta 0 Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment).
	When Unit Structure Code is equal to Enterprise Unit, "EU": = Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment).

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field 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":**	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
	= [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 0 Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment).
	When Unit Structure Code is equal to Enterprise Unit, "EU": = Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment).
Capped Revenue Protection Add on Rate	= MIN(Base Premium Rate + Preliminary Revenue Protection Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate	Capped Revenue Protection Add on Rate	Internal		9999999999.99999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
		Base Premium Rate	P11	94	999999.99999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".
Capped Revenue Protection with Harvest Price Exclusion Add on Rate	= MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		9999999999.99999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.

		Exhibit Name:	Premium Calculation				
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014		
		Record Name:	Acreage	Version:	Approved		
		Record Code:	P11	Release Date:	9/27/2018		

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Base Premium Rate	Base Premium Rate	P11	94	999999.99999999	None	
	Commodity Year	P14	10	CCYY	None	
	Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".

Exhibit Name: Premium Calculation					
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014		
Record Name: Acreage			**Version:** Approved		
Record Code: P11			**Release Date:** 9/27/2018		

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 7: Whole Farm Unit 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.**
Lookup Rate = Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	
	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	From Section 2.
	Revenue Lookup Adjustment Factor	Internal		9.99999999	None	From Section 3.
Mean Quantity $_{commodityj}$ = Mean Quantity $_{commodityj}$ WHERE Lookup Rate $_{commodityj}$ = Base Rate $_{commodityj}$	Mean Quantity $_{commodityj}$	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Lookup Rate = Base Rate
	Lookup Rate $_{commodityj}$	Internal		9.9999	None	
	Base Rate $_{commodityj}$	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".

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

Reinsurance Year: 2014
Version: Approved
Release Date: 9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Standard Deviation Quantity$_{commodityj}$ = Standard Deviation Quantity$_{commodityj}$ WHERE Lookup Rate$_{commodityj}$ = Base Rate$_{commodityj}$	Standard Deviation Quantity$_{commodityj}$	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate
	Lookup Rate$_{commodityj}$	Internal		9.9999	None	
	Base Rate$_{commodityj}$	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
Adjusted Mean Quantity$_{commodityj}$ = Approved Yield$_{commodityj}$ * Mean Quantity$_{commodityj}$ / 100	Adjusted Mean Quantity$_{commodityj}$	Internal		999999.999999999	Round to 8 decimals.	
	Approved Yield$_{commodityj}$	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
Adjusted Standard Deviation Quantity$_{commodityj}$ = Approved Yield$_{commodityj}$ * Standard Deviation Quantity$_{commodityj}$ / 100	Adjusted Standard Deviation Quantity$_{commodityj}$	Internal		9999999999.99999999	Round to 8 decimals.	
	Approved Yield$_{commodityj}$	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
LnVariance$_{commodityj}$ = ln((Price Volatility Factor$_{commodityj}$)^2 + 1)	Log Variance$_{commodityj}$ (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
	Price Volatility Factor$_{commodityj}$	ADM		9.99	None	Edit with ADM Price, "A00810".
LnMean$_{commodityj}$ = ln(Projected Price or Contract Price$_{commodityj}$) − LnVariance$_{commodityj}$ / 2	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
	Projected Price or Contract Price$_{commodityj}$	ADM		99999.9999		Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.
Yield Draw Quantity$_{commodityj\ Sequence\ Number}$ = Yield Draw Quantity$_{commodity}$	Yield Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".

	Exhibit Name:	Premium Calculation			
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014	
	Record Name:	Acreage	Version:	Approved	
	Record Code:	P11	Release Date:	9/27/2018	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Price Draw Quantity $_{commodity j\ Sequence\ Number}$ = Price Draw Quantity$_{commodity}$	Price Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		9999999999.99999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.
	Coverage Level Percent$_{commodityj}$ (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Simulated Revenue Protection Losses Whole Farm $=$ $\sum_{i=1}^{500}$ **Round(** MAX(0, $\sum_{j=}^{\text{all Commodities}}$ Ay$_{commodityj}$ * Acres$_{commodityj}$ * covlvl$_{commodityj}$ * **Round(** MAX(ProjPrice$_{commodityj}$, **Round(** MIN(2 * ProjPrice$_{commodityj}$, **Round(** e$^{(Pricecommodityji *}$ **Round(** vLnVarcommodityj,**12)** + LnMeancommodityj**,12))**,**12))**,**12)** $-$ $\sum_{j=}^{\text{all Commodities}}$ **Round(** MAX(0,**Round(** Yield$_{commodityji}$ * AdjStdDev$_{commodityj}$ + AdjMean$_{commodityj}$**,12))**,**12)** * **Round(** MIN(2 * ProjPrice$_{commodiyj}$, **Round(** e$^{(Pricecommodityji *}$ **Round(** vLnVarcommodityj,**12)** + LnMeancommodityj**,12))**,**12)** * **Round(** Acres$_{commodityj}$**,12))**, **12)**	Approved Yield$_{commodityj}$ (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Reported Acreage$_{commodityj}$ (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.
	Projected Price or Contract Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price for each Commodity/Acreage report line in the Whole Farm Unit.
	Price Draw Quanity$_{commodityj}$i (Price)	ADM		S99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.
	Log Variance$_{commodityj}$ (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.
	Yield Draw Quantity$_{commodityj}$i (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Standard Deviation Quantity$_{commodityj}$ (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Mean Quantity$_{commodityj}$ (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		9999999999.99999999999	Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
	Coverage Level Percent$_{commodityj}$ (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm $= \sum\limits_{i=1}^{500} \mathbf{Round}(MAX(0, \sum\limits_{j=}^{all\ commodities} covlvl_{commodityj} * AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj}) - \sum\limits_{j=}^{all\ commodities} \mathbf{Round}(MAX(0, \mathbf{Round}(Yield_{commodityji} * AdjStdDev_{commodityj} + AdjMean_{commodityj,\mathbf{12}})),\mathbf{12}) * \mathbf{Round}(MIN(2 * ProjPrice_{commodityj}, \mathbf{Round}(e^{(Price_{commodityji} * \mathbf{Round}(VLnVar_{commodityj},\mathbf{12}) + LnMean_{commodityj})},\mathbf{12})),\mathbf{12}) * \mathbf{Round}(Acres_{commodityj},\mathbf{12})), \mathbf{12})$	Approved Yield$_{commodityj}$ (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Reported Acreage$_{commodityj}$ (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.
	Projected Price or Contract Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
	Yield Draw Quantity$_{commodityj}^{i}$ (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Standard Deviation Quantity$_{commodityj}$ (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Mean Quantity$_{commodityj}$ (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Price Draw Quanity$_{commodityj}^{i}$ (Price)	ADM		S99.999999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Log Variance$_{commodityj}$ (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.
	Coverage Level Percent$_{commodityj}$ (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Revenue Protection Whole Farm Rate $= \dfrac{SimRPLossesWF}{500} \Big/ \sum\limits_{j=}^{all\ commodities} (covlvl_{commodityj} * AY_{commodityj} * ProjPrice_{commodityj} * $	Revenue Protection Whole Farm Rate	Internal		9999999999.99999999	Round to 8 decimals.	

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
$Acres_{commodityj}$)	Projected Price or Contract Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
	Coverage Level Percent$_{commodityj}$ (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).
Revenue Protection with Harvest Price Exclusion = Whole Farm Rate $\dfrac{\dfrac{SimRPhpeLossesWF}{500}}{\sum\limits_{j=}^{all\ commodities}(covlvl_{commodityj} * AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj})}$	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999.99999999	Round to 8 decimals.	
	Projected Price or Contract Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as addressed in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
When Insurance Plan Code equals Revenue Protection, "02": Whole Farm Base Premium Rate = Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None	
When Insurance Plan Code equals Revenue Protection with Harvest Price Exclusion, "03": Whole Farm Base Premium Rate = 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	Reinsurance Year: 2014
				Record Name:	Acreage	Version: Approved
				Record Code:	P11	Release Date: 9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 8: Premium Rate						**The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.**
When Unit Structure Code equals Whole Farm Unit, "WU": Premium Rate = MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting), 8))	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit.
	Total Reported Acreage	Internal		99999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.
When Unit Structure Code DOES NOT EQUAL Whole Farm Unit, "WU": Premium Rate = MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		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 Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.

Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2014	
Record Name: Acreage	**Version:** Approved	
Record Code: P11	**Release Date:** 9/27/2018	

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 9: Total Premium Amount, Subsidy Amount, and Producer Premium Amount							
Preliminary Total Premium	= Premium Liability Amount * Premium Rate * Experience Factor * Premium Surcharge Percent * Total Premium Multiplicative Optional Rate Adjustment Factor	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
		Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
		Premium Surcharge Percent	Internal				Use when the Approved Yield Had a Cup or Surcharge applied.
		Total Premium Multiplicative Optional Rate Adjustment Factor	ADM		9.9999	None	If Option Rate with Rate Method Code equal "T". Edit with ADM Option Rate, "A01060". Currently this will be used for Short Rate Option.
Total Premium Amount =	Preliminary Total Premium * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	92	9999999999	Round to whole number.	
		Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.
Subsidy Amount = Total Premium Amount * Subsidy Percent		Subsidy Amount	P11	90	9999999999	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	93	9999999999	Round to whole number.	
Malting Barley Options MA & MB							**If either the Malting Barley Option A or Malting Barley option B is chosen, a new record(s) will need to be prepared for this endorsement. These record 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 option 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.**

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
						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 and the number of acres planted to malting varieties.** **2) If produced under a contract or price agreement, a copy of the current contract or price agreement must be provided on or before the acreage reporting date if the additional value price from the contract/price 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 the three Commodity Years directly preceding the previous Commodity Year** **2) Sold at least 75% of the contracted amount for the 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 Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas · 0078 Sunflowers 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 10: Liability Calculation						
Approved Yield = Approved Yield calculated in accordance with the Basic Provisions OR $\sum$(Number of Bushels / Reported Acreage) / $\sum$ number of years	Approved Yield	P11	46	999999999.99		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 meet the qualifications for Option A.
Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	Round to 1 decimals.	Common Crop Insurance Policy definition 'production guarantee (per acre)'.
	Approved Yield	P11	46	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
Price Election Amount = Additional Value Price	Price Election Amount	Internal		9999.9999	None	Price Election Amount will be set equal to the Additional Value Price. The Additional Value price is the difference between the contract price and regular Barley's Projected Price or the additional value price provided in the ADM if the contract price is not used. 1) The Contract Price: a) The sale price per bushel established in the contract or price agreement less the projected price for Barley. b) The amount per bushel (not including discounts or incentives) above the feed 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 the 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. 2) The additional Value price indicated in the actuarial documents: a) if there is no malting barley contract. b) The contract or price agreement was not provided by the acreage reporting date. 3) The additional Value price: a) For Option A **WILL NOT EXCEED $1.25**. b) For Option B **WILL NOT EXCEED $2.00**.

		Exhibit Name:	Premium Calculation			
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014	
		Record Name:	Acreage	Version:	Approved	
		Record Code:	P11	Release Date:	9/27/2018	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Reported Acreage (Record 1) = MIN(Total Reported Acreage, Malting Barley Contract 1 Bushels / Approved Yield) Reported Acreage (Record 2) = MIN(Total Reported Acreage - Reported Acreage for Record 1, Malting Barley Contract 2 Bushels / Approved Yield) Reported Acreage (Record X) = MIN(Total Reported Acreage - $\sum_{i=1}^{x-1}$ Malting Barley Contract I, malting Barley Contract X)	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 for each record. Common Crop Insurance Policy definition 'production guarantee (per acre)'.
If Late Planting applies:						
Guarantee Per Acre Amount = Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999.99	Round to 1 decimals.	Prevented Planting does not apply to Malting Barley Option A or Malting Barley Option B records.
Premium Total Guarantee Amount = Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
Total Guarantee Amount = Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	100	99999999.99	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	91	9999999999	Round to whole number.	

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 11: Premium Rate						
Premium Rate = MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. To Determine the Premium Rate for the Malting Barley Option Records: 1) Use the Rate Yield as determined under normal procedures. 2) 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. 3) Find the Basic Unit Discount Factor to be applied later from section 3 of these procedures as if it was a normal Yield Protection Plan of Insurance 4) 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. 5) Sections 5, 6, 7 are not applicable for MA/MB records.
	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999		
	Additive Optional Rate Adjustment Factor	Internal		999999.9999		
Section 12: Total Premium Amount, Subsidy Amount, and Producer Premium Amount						
Preliminary Total Premium = Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent ~~Factor~~	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
	Premium Rate Surcharge Percent					
Total Premium Amount = Preliminary Total Premium * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	92	9999999999	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	90	9999999999	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	93	9999999999	Round to whole number.	

Exhibit Name: Premium Calculation		**Reinsurance Year:** 2014	
Exhibit Number: P11-1, Plan 01, 02, 03		**Version:** Approved	
Record Name: Acreage		**Release Date:** 9/27/2018	
Record Code: P11			

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Cottonseed Endorsement Option 'SE'						Information (Approved Yield, Reported Acreage, Insured Share Percent) will be obtained from Cotton P11 record and Rate Yield from P15 record associated with the Cottonseed record. CAT does not apply to Plan 01 Cottonseed. Unit Structure Code 'WU' does not apply to Cottonseed.
Section 13: Liability Calculation						
Modified Yield **=** Approved Yield * Option Conversion Factor	Modified Yield	Internal		99999999.99	Round to whole Number.	
	Approved Yield	P11	46	99999999.99	None	From Cotton P11 record. For skip row cotton, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Premium Guarantee Per Acre Amount **=** Modified Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	Round to whole number.	
	Coverage Level Percent	P14	34	9.9999	None	
When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Guarantee Per Acre Amount **=** Premium Guarantee Per Acre Amount * Guarantee	Guarantee Per Acre Amount	Internal		999999999.99	Round to whole number.	
	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 one-tenth cent [$9.999].	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 Amount **=** Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
	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 * Reported Acreage	Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
	Price Election Amount	Internal		9999.9999	None	
	Reported Acreage	P11	52	999999.99	None	From Cotton P11 record.

Exhibit Name: Premium Calculation			
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2014	
Record Name: Acreage		**Version:** Approved	
Record Code: P11		**Release Date:** 9/27/2018	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		9999999999	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	91	9999999999	Round to whole number.	
	Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.
Section 14: Premium Rate						
Premium Rate = MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 2 of these procedures using the rating components for regular Cotton offer. 3) Find the Unit Structure Discount Factor to be applied later from section 3 of these procedures for regular Cotton offer. 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton offer. 5) Sections 5, 6, 7 are not applicable for Cottonseed records.
	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999		
	Additive Optional Rate Adjustment Factor	Internal		999999.9999		
Section 15: Total Premium Amount, Subsidy Amount, and Producer Premium Amount						
Preliminary Total Premium = Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
	Premium Rate Surcharge Percent					
Total Premium Amount = Preliminary Total Premium * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	92	9999999999	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	90	9999999999	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	93	9999999999	Round to whole number.	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
APH Yield Trend (Trend Adjustment Option 'TA')						Trend Adjustment Option (TA) ONLY available in select counties for selected crops. See "white paper" for examples.
Section 16: Effective Coverage Level Calculation						
	Effective Coverage Level Percent	Internal		9.99	Rounded to 2 decimal places.	
	Coverage Level Percent	P14	34	9.9999	None	
Effective Coverage Level Percent = Coverage Level Percent * Approved Yield/Adjusted Yield	Approved Yield	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For skip row commodities, the approved yield is the coverted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Adjusted Yield	P15	44	99999999.99	None	For skip row commodities, the adjusted yield is the coverted adjusted yield from the P15 record with skip row (yield conversion factor) applied.
Section 17: Rate Differential Factor						When Trend Adjustment Option (TA) was chosen and yield reflects a trend.
	Rate Differential Factor	Internal		9.999999999	Round to 9 decimal places	
	Base Rate Differential Factor	ADM		9.999999999	None	Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Rate Differential Factor	ADM		9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

		Exhibit Name:	Premium Calculation		
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
		Record Name:	Acreage	Version:	Approved
		Record Code:	P11	Release Date:	9/27/2018

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Rate Differential Factor =	Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Lower Bound Rate Differential Factor	ADM		9.999999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Prior Year Rate Differential Factor	Internal		9.999999999	Round to 9 decimal places.	
	Base Prior Year Rate Differential Factor	ADM		9.999999999	None	Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Prior Year Rate Differential Factor	ADM		9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

		Exhibit Name:	Premium Calculation		
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
		Record Name:	Acreage	Version:	Approved
		Record Code:	P11	Release Date:	9/27/2018

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

	Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Prior Year Rate Differential Factor =	Round(Base Prior Year Rate Differential Factor + (Upper Bound Prior Year Rate Differential Factor - Lower Bound Prior Year Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)						
		Lower Bound Prior Year Rate Differential Factor	ADM		9.999999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 18: Unit Residual Factor						The lookup/interpoloation/extrapolation procedure for 'Unit Residual Factor and Prior Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend.
When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU", use the following calculations for Unit Residual Factor and Prior Year Unit Residual Factor:						
	Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
	Base Unit Residual Factor	ADM		999.999	None	Base Unit Residual Factor is equal to Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Unit Residual Factor = Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor - Lower Bound Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		9.99	None	

	Exhibit Name:	Premium Calculation			
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014	
	Record Name:	Acreage	Version:	Approved	
	Record Code:	P11	Release Date:	9/27/2018	

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
		Prior Year Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
		Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
		Upper Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Prior Year Unit Residual Factor	= Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Prior Year Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculations for Enterprise Unit Residual Factor and Prior Year Enterprise Unit Residual Factor:						
	Enterprise Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
	Base Enterprise Unit Residual Factor	ADM		999.999	None	Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Enterprise Unit Residual Factor $=$ Round(Base Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		9.99	None	

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
	Prior Year Enterprise Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
	Base Enterprise Prior Year Unit Residual Factor	ADM		999.999	None	Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Prior Year Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Round(Base Enterprise Prior Year Unit Residual Factor +						

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Prior Year Enterprise Unit Residual Factor	= (Upper Bound Prior Year Enterprise Unit Residual Factor - Lower Bound Prior Year Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Prior Year Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation					
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2014			
Record Name: Acreage		**Version:** Approved			
Record Code: P11		**Release Date:** 9/27/2018			

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

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
When Unit Structure Code is equal to Whole Farm Unit, 'WU', use the following calculations for Whole Farm Unit Residual Factor and Prior Year Whole Farm Unit Residual Factor:							
Whole Farm Unit Residual Factor	= Round(Base Whole Farm Unit Residual Factor + (Upper Bound Whole Farm Unit Residual Factor - Lower Bound Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Whole Farm Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
		Base Whole Farm Unit Residual Factor	ADM		999.999	None	Base Whole Farm Unit Residual Factor is equal to Whole Farm Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
		Upper Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
	Prior Year Whole Farm Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure.
	Base Whole Farm Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Whole Farm Base Prior Year Unit Residual Factor is equal to Whole Farm Base Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Prior Year Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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

Reinsurance Year:	2014
Version:	Approved
Release Date:	9/27/2018

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

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

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
	Effective Coverage Level Percent	Internal		9.99	None	
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Name: Premium Calculation					
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014		
Record Name: Acreage			**Version:** Approved		
Record Code: P11			**Release Date:** 9/27/2018		

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

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Section 19: Unit Discount Calculation							The lookup/interpoloation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend.

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

Calculations		**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
		Unit Structure Discount Factor	Internal		9.999999999	Round to 4 & decimal places.	Capped at 1.0
		Base Coverage Level Percent Optional Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
		Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM		9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Unit Structure Discount Factor	= Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level Percent Optional Unit Discount Factor - Lower Bound Coverage Level Percent Optional Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Lower Bound Coverage Level Percent Optional Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2014			
Record Name: Acreage			**Version:** Approved			
Record Code: P11			**Release Date:** 9/27/2018			

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
	Effective Coverage Level Percent	Internal		9.99	None	
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor:						
	Unit Structure Discount Factor	Internal		9.999999999	Round to 4 decimal places.	Capped at 1.0
	Base Coverage Level Percent Basic Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2014	
Record Name: Acreage	**Version:** Approved	
Record Code: P11	**Release Date:** 9/27/2018	

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Unit Structure Discount Factor	= Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound Coverage Level Percent Basic Unit Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Upper Bound Coverage Level Percent Basic Unit Discount Factor	ADM		9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Coverage Level Percent Basic Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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

Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculation for Unit Structure Discount Factor:						
	Unit Structure Discount Factor	Internal		9.999999999	Round to 4 decimal places.	Capped at 1.0
	Base Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Unit Structure Discount Factor = Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Lower Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Exhibit Name: Premium Calculation				**Reinsurance Year:** 2014		
Exhibit Number: P11-1, Plan 01, 02, 03				**Version:** Approved		
Record Name: Acreage				**Release Date:** 9/27/2018		
Record Code: P11						

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
	Effective Coverage Level Percent	Internal		9.99	None	
	Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
Written Agreement Rate Information						
Section 20: Written Agreement Rate Calculation						The following information will be used only when an applicable county program does not exist in the county and written agreement (WA) specifies a Multiplicative Rate, Add-on Rate, or Designated Rate. This would include situations where a written agreement (WA) for a type or practice not contained in the Actuarial materials.
When WA specifies a Multiplicative Rate:						
Reference Rate	Reference Rate	Internal		9.9999	None	
= (Round(Reference Rate + Fixed Rate) * Written Agreement Multiplicative Rate Adjustment,3) - Fixed Rate	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	

Exhibit Name: Premium Calculation				**Reinsurance Year:** 2014		
Exhibit Number: P11-1, Plan 01, 02, 03				**Version:** Approved		
Record Name: Acreage				**Release Date:** 9/27/2018		
Record Code: P11						

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

Calculations		Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
		Prior Year Reference Rate	Internal		9.9999	None	
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Prior Year Reference Rate	= (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".
		Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None	
When WA specifies a Add-on Rate:							
		Fixed Rate	Internal		9.9999	None	
Fixed Rate	= 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	Internal		9.9999	None	
Prior Year Fixed Rate	= 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	
When WA specifies a Designed Rate:							
Reference Rate = zero (0)		Reference Rate	Internal		9.9999	None	
Fixed Rate = Designated Rate		Fixed Rate	Internal		9.9999	None	
		Designated Rate	WA		9.9999	None	
Prior Year Reference Rate = zero (0)		Prior Year Reference Rate	Internal		9.9999	None	
Prior Year Fixed Rate = Designated Rate		Prior Year Fixed Rate	Internal		9.9999	None	
		Written Agreement Designated Rate	WA		9.9999	None	
Section 21: Written Agreement Sub County Rate Calculation							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.

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2014
	Record Name:	Acreage	Version:	Approved
	Record Code:	P11	Release Date:	9/27/2018

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

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Downed Rice Endorsement (DRE) Option 'DC'						CAT does not apply to Downed Rice (DRE). Only Unit Structure Codes 'BU and OU' apply regardless of the base Rice selection. Price Election Percent for base Rice will apply to DRE. Subsidy Level will be 38% for DRE regardless of the base Rice Unit Structure or Coverage Level. Insured Share can be different for DRE than base Rice. Insured Share will be 100%. DRE coverage is not available for high-risk CAT acreage if excluded from additional coverage for Base Rice.
Section 22: Liability Calculation						
Premium Liability Amount = Dollar Amount of Insurance * Reported Acreage * Insured Share Percent * Price Election Percent	Premium Liability Amount	Internal		9999999999	Round to whole number.	
	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
	Reported Acreage	P11	51	99999999.99	None	
	Insured Share Percent	P11	46	9.9999	None	DRE insured share will always be 100% without regards to base Rice.
	Price Election Percent	ICE		9.9999	None	From base Rice P14 record.
Liability Amount = Dollar Amount of Insurance * Reported Acreage * Insured Share Percent * Price Election Percent	Liability Amount	P11	93	9999999999	Round to whole number.	
	Dollar Amount of Insurance	ADM		99999	None	Edit with ADM Price, "A00810", Fixed Coverage Amount with insurance option = 'DC'.
	Reported Acreage	P11	51	999999.99	None	
	Insured Share Percent	P11	46	9.9999	None	DRE insured share will always be 100% without regards to base Rice.
	Price Election Percent	ICE		9.9999	None	From base Rice P14 record.
Section 23: Total Premium Amount, Subsidy Amount, and Producer Premium Amount						
Preliminary Total Premium = Premium Liability Amount * Premium Rate	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
	Premium Rate	ADM			None	Edit with ADM Option Rate, "A01060", rate with insurance option = 'DC'.
Total Premium Amount = Preliminary Total Premium	Total Premium Amount	P11	94	9999999999	Round to whole number.	
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	92	9999999999	Round to whole number.	
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070". Will always be 38% for DRE.
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	95	9999999999	Round to whole number.	