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

Record Code: P11

Commodity Code

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts

 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans		
						0091 Barley		
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>			
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
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).		
Acre Amount	Approved Yield	P11	43	99999999.99	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
	Coverage Level Percent	P14	34	9.9999	None	For APH Trend and Yield Exclusion the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.		

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 00041 Daylor

					,		0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Guarantee Per Acre Amount	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		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	72	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".

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

Record Name: Acreage

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflower

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

0018 RICE	0043 Popcorn			0067 Dry Peas		0081 Soybeans 0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	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).	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0091 Barley									
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>				
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>			
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 Peanuts, "0075", 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".			

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

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0091 Barley

0091 Barley									
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>				
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>			
	Contract Price	P11	47	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, Peanuts, 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, Popcorn, 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.			
	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	Internal		99999999.99	Round to 2 decimals.				
Premium Total Guarantee Premium Guarantee Per Acre Amount * Price Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None				
	Reported Acreage	P11	49	99999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0067 Dry Peas 0043 Popcorn 0081 Soybeans 0091 Barley Field <u>Field</u> Field <u>Field</u> Rounding Calculations Name **Record Number** Number **Format** Rules **Total Guarantee** P11 100 9999999.99 Round to 2 decimals. Amount Total Guarantee Amount = * Reported Acreage Guarantee Per Acre Amount * Price Election Amount Price Election Amount 9999.9999 None Internal Reported Acreage must equal the sum of all Reported Acreage P11 49 999999.99 None Land, P27, Reported Acreage. Premium Liability Round to whole Internal 999999999 number. Premium Total Guarantee Amount * Insured Share Amount Premium Liability Amount = **Insured Share Percent** 44 9.9999 None P11 Round to whole Liability Amount P11 91 999999999 number. Liability Amount = Total Guarantee Amount * Insured Share Percent Insured Share Percent P11 44 9.9999 None The appropriate discount factor should be Section 2: Unit Discount Calculation looked up and applied. When commodities are setup in the unit discount table for lookups based solely on acres. When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Revenue Lookup 9.99999999 Unit, "EU" or"EP": Internal None Adjustment Factor Unit Structure Discount Factor Revenue Lookup Adjustment Factor When the Unit Structure Code is Whole Farm Unit "WU": Capped at 1.0 Unit Structure Discount From below for Unit Structures "OU, UA, UD, Internal 9.9999999 None Factor BU, EU or EP". Unit Structure Discount Factor for Enterprise Unit"EU"

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley

	0091 Barley									
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules			
-	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.99999999	None	capped at 1.0			
	Optional Unit Discount Factor	Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".			
	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".			
Unit Structure Discount Factor	When the Unit Structure Code is Enterprise Unit, "EU" or "EP": Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM 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.			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0067 Dry Peas 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules When commodities are setup in the unit discount table for lookups based on acres and coverage levels. Revenue Lookup Internal 9.99999999 None When the Unit Structure Code is Optional Unit, Adjustment Factor "OU", "UA", or "UD": Capped at 1.0 Unit Structure Discount Factor Unit Structure Discount Internal 9.99999999 None From below for Unit Structure "OU", "UA", or Factor "UD". Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. Basic Unit Discount Factor is contingent upon When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount the sum of the reported acres which were not ADM 9.999 None Factor prevented from planting for the unit being Basic Unit Discount Factor for 65% Coverage Level greater than or equal to the Area Low Quantity Revenue Lookup and less than or equal to Area High Quantity Adjustment Factor fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level. Edit with ADM Unit Discount, "A01090" for 65% Coverage Level. When the Unit Structure Code is Enterprise Unit, Enterprise Unit Discount Factor is contingent "EU" or "EP" or Whole Farm Unit "WU": upon the sum of the reported acres which were Enterprise Unit None ADM 9.999 not prevented from planting for all applicable **Discount Factor** Enterprise Unit Discount Factor for 65% Coverage units being greater than or equal to the Area Level Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

						0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
= Optional Unit Discount Factor	Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". See Section 19 for Option Code "TA" (Trend Adjustment)and "YE" (Yield Exclusion).
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) and "YE" (Yield Exclusion).

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

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

					,		0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Unit Structure Discount Factor	When the Unit Structure Code is Enterprise Unit, "EU" or "EP": Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090" 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) and "YE" (Yield Exclusion).

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

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018 Record Code: P11

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

0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans

0091 Barley **Field** Field Field <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Section 3: Base Premium Rate Calculation Current Year Yield Ratio Internal 9.9999 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. For skip row commodities, the rate yield is the Current Year Yield Ratio = Rate Yield / Reference Amount Rate Yield P15 35 9999999.99 None converted rate yield from the P15 record with skip row (yield conversion factor) applied. Reference Yield ADM 99999.99 None Edit with ADM Base Rate, "A01010". Prior Year Yield Ratio 9.9999 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. Internal For skip row commodities, the rate yield is the 35 9999999.99 None Rate Yield P15 converted rate yield from the P15 record with Prior Year Yield Ratio = Rate Yield / Prior Year Reference Amount skip row (yield conversion factor) applied. Prior Year Reference ADM 99999.99 Edit with ADM Base Rate, "A01010". None Amount Current Year Rate Multi Internal 9999.9999999 Round to 8 decimals. Current Year Rate Multiplier = Current Year Yield Ratio ^ Exponent Value S99.999 None Exponent Value ADM Edit with ADM Base Rate, "A01010". Prior Year Rate 9999.9999999 Round to 8 decimals. Internal Multiplier Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value Prior Year Exponent ADM S99.999 None Edit with ADM Base Rate, "A01010". Value

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Record Name: Acreage Record Code: P11

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans

	0018 Rice	0043 Popcorn		0067 Dry Peas		0081 Soybeans 0091 Barley	
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
	Miles Date Mathed Code in Fixed 11511.	Current Year Base Rate	Internal		9999999999999999	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":	5 17 5 1					
= Current Year Base Rate	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":						Edit with ADM Base Rate, "A01010".
=	Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	eference Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rate Information.
	Otherwise:						Edit with ADM Base Rate, "A01010".
=	Current Year Rate Multiplier * Reference Rate + Fixed rate	Fixed Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rate Information.
	When Pote Method Code is Fixed "F".	Prior Year Base Rate	Internal		9999999999999999	Round to 8 decimals.	
=	When Rate Method Code is Fixed, "F": Sub County Rate	Sub County Rate	ADM		99.9999		Edit with ADM Sub County Rate, "A01050". See Section 21 for Written Agreement Sub County Rate information.
	When Rate Method Code is Additive, "A":						
= Prior Year Base Rate	Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal		9999.99999999	None	
=	When Rate Method Code is Multiplicative, "M":						Edit with ADM Base Rate, "A01010".
	Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	See Section 20 for Written Agreement Rate Information.
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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

0075 Peanuts

0078 Sunflowers

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans

 0015 Canola
 0041 Corn
 0051 Grain Sorghum

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

		Field		Field	Field	Field	0091 Barley
	Calculations	Name	Record Number	Number	<u>Field</u> Format	Rounding	Rules
		<u>itame</u>	Record (Valider	Italliber	Tormat	Rounding	Kuics
=	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.
	When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) When Unit Structure code is Whole Farm Unit, "WII"	Current Year Base Premium Rate	Internal		99999999999999999	Round to 8 decimals.	If Option Code "YE" is applicable and the effective coverage level exceeds the highest coverage level for the offer in the ADM, see Section 25 for the Current Year Base Premium Rate calculation.
=		Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
Current Year Base Premium Rate		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
=		Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.
=		Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Un 'WU'.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules When Unit Structure Code is equal to Optional Prior Year Base Internal 9999999999999999 Round to 8 decimals. Unit, "OU", "UA", "UD", or Basic Unit, "BU": Premium Rate Edit with ADM Coverage Level Differential, Prior Year Rate "A01040". ADM 9.99999999 None Round(Prior Year Base Rate * Prior Year Rate Differential Factor See Section 17 for Option code "TA" (Trend Differential Factor * Prior Year Unit Residual Factor, Adjustment) and "YE" (Yield Exclusion). 8) Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Prior Year Unit Residual ADM 999.999 None Factor Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, Prior Year Base Premium "OU", "UA", "UD", or Basic Unit, "BU". When Unit Structure code is Enterprise Unit, "EU" Edit with ADM Coverage Level Differential, or "EP": "A01040". Prior Year Enterprise See Section 18 for Option Code "TA" (Trend ADM 9.999 None Round(Prior Year Base Rate * Prior Year Rate **Unit Residual Factor** Adjustment) and "YE" (Yield Exclusion) where Differential Factor * Prior Year Enterprise Unit Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'. Residual Factor, 8) Edit with ADM Coverage Level Differential, When Unit Structure code is Whole Farm Unit, 'WU': "A01040". Prior Year Whole Farm See Section 18 for Option Code "TA" (Trend ADM 9.999 None Adjustment) and "YE" (Yield Exclusion) where Round(Prior Year Base Rate * Prior Year Rate Unit Residual Factor Differential Factor * Prior Year Whole Farm Unit Unit Structure Code equal to Whole Farm Unit, Residual Factor, 8) 'WU'. MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate = Base Premium Rate P11 94 99999999999999999 Round to 8 decimals. Base Premium Rate * 1.2, .999) MIN(Current Year Base Rate, Prior Year Base Rate * Revenue Lookup Rate = Revenue Lookup Rate Internal 999999999.9999 Round to 4 decimals. 1.2. 0.9999) If Option Rate Method Code equal "T' (Total Section 4: Optional Coverage (Additive "A" and Multiplicative "M") Premium Rate Adjustment) see Section 9. Additive Optional Rate Internal 999999.9999 Round to 4 decimals. Adjustment Factor Option Rate will be the Sum of all Option Rate Option Rate ADM 99999.9999 None with Rate Method Code equal to Additive, "A". When Rate Method Code is Additive, "A": Additive Optional Rate Edit with ADM Option Rate, "A01060".

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Record Code: P11

Reinsurance Year: 2015

Version: Approved

Release Date: 9/20/2018

	Record Code	: P11					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Adjustment Factor ^{**}	∑ Option Rate * Rate Differential Factor	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
Multiplicative Optional =	When Rate Method Code is Multiplicative, "M":	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
							It is recommended that other than hard co for specific type and practice codes which eventually change when the new key struc

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

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.

Factor	Lookup Rate	Internal	999999999999999	Round to 4 decimals.	
	Revenue Lookup Rate	Internal	9999999999.9999	Round to 4 decimals.	From Section 3.
	Revenue Lookup Adjustment Factor	Internal	9.9999999	None	From Section 2.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

0091 Barley

the Standard Deviation Quantity using Lookup

Rate.

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

Field Field Field <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Adjusted Mean Internal 999999.99999999 Round to 8 decimals. Quantity (AdjMean) For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. Approved Yield (AY) P11 43 9999999.99 None For skip row commodities, the approved yield is Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100 the converted approved yield from the P15 record with skip row (yield conversion factor) applied. Edit with ADM Combo Revenue Factor, "A01030". Mean Quantity ADM 999.99999999 None Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate. Adjusted Standard **Deviation Quantity** Internal 9999999999999999 Round to 8 decimals. (AdjStndDev) For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted Approved Yield (AY) P11 43 9999999.99 None Adjusted Standard = Approved Yield * Standard Deviation Quantity / 100 For skip row cotton, the approved yield is the **Deviation Quantity** converted approved yield from the P15 record with skip row (yield conversion factor) applied. Edit with ADM Combo Revenue Factor, "A01030". Standard Deviation ADM 999.99999999 None Quantity Search the Combo Revenue Factor "A01030" for

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

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0019 VICE	0043 POPCOIII			0007 Dry Feas		0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
LnVar = Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.9999999	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	47	9999.9999	INone	Contract price as addressed in Section 1, capped with Max Contract Price from ADM.
Yield Draw Quantity _{Sequence} = For Sequence Number 1 to 500 Number 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} = For Sequence Number 1 to 500 Number 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

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Record Name: Acreage

Reinsurance Year: 2015 Exhibit Number: P11-1, Plan 01, 02, 03 Version: Approved Record Code: P11 **Release Date:** 9/20/2018

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

0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley

0091 Barley									
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>			
	Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		999999999999999999999	Round to 12 decimals.				
$Simulated\ Yield\ Protection = \sum_{i=1}^{500} Simulated\ Yield\ Protection = \sum_{i=1}^{500} AdjStndDev + AdjMean),12)),\ 12)$	Approved Yield (AY)	P11	43	99999999.99	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved-yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.			
	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).			
	Yield Draw Quantity _i (Yield _i)	ADM		\$99.999999999	None				

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

Reinsurance Year: 2015

Version: Approved

Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field <u>Field</u> <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Simulated Revenue Round to 12 Protection Losses Internal 999999999999999999 decimals. Quantity(SimRPLosses) For APH Trend and Yield Exclusion, the

Simulated Revenue

Round(MAX(ProjPrice, i=1 Round(MIN(2 * ProjPrice, Round(e^{(Price}i*

Protection Losses = Round(VLnVar,12) + LnMean),12)),12)),12) Quantity (Round(MAX(0, Yieldi * AdjStdDev +

ΛdiMean) **12)**

Round(MIN(2 * ProjPrice, Round(e^{(Price}i *

Round(VLnVar,12) + LnMean),12)), 12))),12)

∑ Round(MAX(0, AY * covlvl *

Approved Yield will be the greater of the calculated approved yield and the adjusted vield. Approved Yield (AY) P11 43 9999999.99 None For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent P14 34 9.9999 None Coverage Level Percent. See Section 16 for (covlvl) Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion). Yield Draw Quantity, ADM S99.99999999 None (Yield_i) Projected Priced or Edit with ADM Price, "A00810". Contract Price Contract Price 99999.9999 ADM None as addressed in Section 1. (ProjPrice)

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		999999999999999999999	Round to 12 decimals.	
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity AdjStdDev + AdjMean),12) * Round(MIN(2 * ProjPrice, Round(e ^{(price}) * Round(VLnVar,12) + LnMean), 12)),12))),12)	Approved Yield (AY)	P11	43	99999999.99	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
	Coverage Level Percent (covIvI)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
	Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.
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) and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.
Simulated Revenue (Simulated Revenue Protection Losses / 500) / Protection Base Premium = (Approved Yield * Coverage Level Percent * Rate (Projected Price or Contract Price))	Simulated Revenue Protection Base Premium Rate	Internal		999999.9999999	Round to 8 decimals.	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0001 30 y 1 cas 0001 30 y 1 ca

							0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	(Simulated Revenue Protection with harvest Price Exclusion Losses Quantity / 500) / (Approved Yield * Coverage level Percent * (Projected Price or Contract Price))		Internal		999999.99999999		For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) Effective Coverage Level Percent will replace Coverage Level Percent.
Protection Premium Add :	MAX(Simulated Revenue Protection Base Premium = Rate - Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.
Price Exclusion Add on	MAX(Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium 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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

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

Section 6: Historical Revenue Capping (Applicable only for Plans 02 and 03)

Note: This Section will not apply if record has a Written Agreement.

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

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

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

3020 11100	ос то т орсети			3007 D. y . cus		0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
	Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Capping Yield Ratio = Rate Yield / Capping Reference Yield	Rate Yield	P15	35	99999999.99	None	For skip row commodities, the rate yield is the converted rate yield from the P15 record with skip row (yield conversion factor) applied.
	Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Yield Ratio = 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 converted rate yield from the P15 record with skip row (yield conversion factor) applied.
	Prior Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Consider Date Multiplier - C	Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Capping Rate Multiplier = Capping Yield Ratio ^Capping Exponent Value	Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Rate _ Prior Capping Yield Ratio ^Prior Capping Exponent	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
Multiplier Value	Prior Capping Exponent Value	ADM		\$99.999	None	Edit with ADM Historical Revenue Capping, "A01110".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 0015 Canola
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

	0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans 0091 Barley
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	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.
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 Page 24 of 78		999999.9999999	Round to 8 decimals.	

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

	0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) wnd "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
Historical Revenue Protection Base Premium Rate	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor /2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield +	Historical Revenue Protection Base Premium Rate	Internal		99999999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
	Beta 13 Factor * Coverage Level Percent * Price Volatility Factor +	Beta 0 Factor - Beta 14 Factor	ADM		S99.99999999	None	Edit with ADM Historical Revenue Capping, "A01110".
	Beta 14 Factor * (Approved Yield / Capping	Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".
Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).	
	When Unit Structure Code is equal to Enterprise Unit, "EU" or "EP": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

	0091 Barley										
		<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>					
	Calculations	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>				
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Coverage Level Percent	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).				
Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 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	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		9999999999999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.					
	Volatility Factor + Beta 14 Factor * (Approved Yield / Capping	Beta 0 Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".				
	Reference Yield) * Price Volatility Factor] * Unit	Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".				
Residual Factor X 1.1	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).					
=	When Unit Structure Code is equal to Enterprise Unit, "EU" or "EP": Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Factor'	Enterprise Unit Residual Factor	ADM Page 26 of 78		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).				

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015

Version: Approved

Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0067 Dry Peas 0043 Popcorn 0081 Soybeans 0091 Barley **Field** Field Field <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Capped Revenue Protection with Harvest Price Exclusion, "03" 9999999999999999 Round to 8 decimals. Internal MIN(Base Premium Rate + Preliminary Revenue Protection Add on Rate from section 5, the Base Premium Rate from Capped Revenue Protection Add On Rate, Historical Revenue section 3 to calculate the Capped Revenue add Protection Add on Rate Protection Base Premium Rate * 1.2^(Commodity on factors. Year - Capping Year)) - Base Premium Rate Base Premium Rate P11 94 999999.9999999 None P14 10 Commodity Year CCYY None Edit with ADM Historical Revenue Capping, ADM CCYY Capping Year None "A01110". Use the Preliminary Add On Rates for Insurance Capped Revenue Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Protection with Harvest Price Exclusion, "03" Internal 9999999999999999 Round to 8 decimal MIN(Base Premium Rate + Preliminary Revenue Price Exclusion Add on from section 5, the Base Premium Rate from Capped Revenue Protection with Harvest Price Exclusion Add On Rate, Rate section 3 to calculate the Capped Revenue add Protection with Harvest = Historical Revenue Protection with Harvest Price on factors. Price Exclusion Add on Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate Base Premium Rate P11 94 999999.9999999 None P14 10 CCYY Commodity Year None Edit with ADM Historical Revenue Capping, Capping Year ADM CCYY None "A01110".

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Record Name: Acreage

Reinsurance Year: 2015 Version: Approved

	Record Code: P11			Release Date: 9/20/2018					
Insurance Plan Code	01 Yield Protection	ı	02 Revenue Protection				03 Revenue Protection	on with Harvest Price Exclusion	
Common ditu. Codo	0011 Wheat		0021 Cotton			0047 Dry Beans		0075 Peanuts	
Commodity Code	0015 Canola 0018 Rice		0041 Corn 0043 Popcorn			0051 Grain Sorghum 0067 Dry Peas		0078 Sunflowers 0081 Soybeans 0091 Barley	
	<u>Calculations</u>		<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules	
								The Whole Farm Unit Discount is o applicable to the Revenue Protecti Revenue Protection with Harvest F	ion and Price
								Exclusion Insurance Plans, unless t Provisions allow Whole Farm Units	-

Section 7: Whole Farm Unit Base Premium Rate

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	Internal	9999999999.9999	Round to 4 decimals.	
Lookup Rate = Revenue Lookup Rate * Revenue Lookup Adjustment Factor	t Revenue Lookup Rate	Internal	9999999999.9999	Round to 4 decimals.	From Section 3.
	Revenue Lookup Adjustment Factor	Internal	9.99999999	None	From Section 2.
Mean Quantity commodity WHERE Lookup Rate Mean Quantity commodity = - Page Pate	Mean Quantity _{commodityj}	ADM	999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Lookup Rate = Base Rate
commodityj = Base Rate commodityj /13/2018	Lookup Rate commodityj	Internal Page 28 of 78	9.9999	None	

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

	0091 Barley					
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	Rules
	Base Rate _{commodityj}	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
Standard Deviation Standard Deviation Quantity commodity WHERE Quantity commodity Lookup Rate commodity Base Rate commodity	Standard Deviation Quantity _{commodityj}	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate
	Lookup Rate commodityj	Internal		9.9999	None	
	Base Rate _{commodityj}	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
	Adjusted Mean Quantity _{commodityj}	Internal		999999.99999999	Round to 8 decimals.	
Adjusted Mean Quantity = Approved Yield commodity * Mean Quantity commodity / commodity = 100	Approved Yield _{commodityj}	P11	43	99999999.99	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	Adjusted Standard Deviation Quantity commodityj	Internal		99999999999999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity = Approved Yield commodity * Standard Deviation Quantity commodity / 100	Approved Yield _{commodityj}	P11	43	99999999.99	None	For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
LnVariance commodity = In((Price Volatility Factor commodity)^2 + 1)	Log Variancecommodityj (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
	Price Volatility Factor _{commodityj}	ADM		9.99	None	Edit with ADM Price, "A00810".
In(Projected Price or Contract Price commodity) —	log Mean _{commodityj} (LnMean)	Internal		999999.9999999	Round to 8 decimals.	
LnMean commodityj = In(Projected Price or Contract Price commodityj) - InVariance commodityj / 2	Projected Price or Contract Price _{commodityj}	ADM		99999.9999		Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.
Yield Draw Quantity = Yield Draw Quantity _{commodity} commodity Sequence Number	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".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field <u>Field</u> **Field** Calculations Name **Record Number** Number **Format** Rounding Rules ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the Price Draw Quantity = Price Draw Quantity_{commodity} applicable draws. There should be 500 Draws Price Draw Quantity ADM 599,999999999 None (or sequence numbers) per Beta Id in the ADM commodityj Sequence Number Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030". Simulated Revenue Simulated Revenue Protection Losses for All Protection Losses Round to 12 Internal Commodity/Acreage report line in the Whole Whole Farm decimals. all Commodities Farm Unit. (SimRPLossesWF) ∑ Round(MAX(0,∑ Ay_{commodityj} * For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Acres_{commodityi} * covlvl_{commodityi} * Coverage Level P14 34 9.9999 None Coverage Level Percent. See Section 16 for Round(MAX(ProjPrice_{commodityi}, Percent_{commodityj} (covlvI) Option Code "TA" (Trend Adjustment) and "YE" Round(MIN(2 * ProjPrice_{commodityi}, (Yield Exclusion). Round(e^{(Pricecommodityji *} Approved Yield for each Commodity/Acreage Round(VLnVarcommodityj,12) + report line in the Whole Farm Unit. LnMeancommodityj),12)),12)),12) -For APH Trend and Yield Exclusion, the all Commodities Approved Yield will be the greater of the ∑ Round(MAX(0,Round(Yield_{commoditvii} * Approved Yield_{commodityi} calculated approved yield and the adjusted P11 43 9999999.99 None (AY) yield. j= $\mathsf{AdjStdDev}_{\mathsf{commodityj}} + \\$ For skip row commodities, the approved yield is AdjMean_{commodityj,12})),12) * Round(MIN(2 the converted approved yield from the P15 record with skip row (yield conversion factor) * $ProjPrice_{commodiyj}$, $Round(e^{(Pricecommodityji}$ applied. * Round(VLnVarcommodityj,12) + Reported Acreage must equal the sum of all LnMeancommodityj),12)),12) * Land, P27, Reported Acreage. Simulated Revenue Reported Protection Losses Whole = Round(Acres_{commodityi,12})), 12) P11 49 999999.99 None Acreage_{commodityj} (Acres) Reported Acreage for each Commodity/Acreage Farm report line in the Whole Farm Unit. Edit with ADM Price. "A00810". Projected Price or Contract Price_{commodityi} ADM 99999.9999 None Projected Price or Contract Price for each (ProjPrice) Commodity/Acreage report line in the Whole Farm Unit.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 00041 Daylor

	·			,		, 0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
	Price 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		999999.9999999	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		999999999.9999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

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(Yield)

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Farm Unit.

	Record Code.	711			Neicase Date	. 3/20/2016	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Protection Harvest Price Excluded Losses Whole Farm	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.
		Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE (Yield Exclusion).
Simulated Revenue Protection Harvest Price = Excluded Losses Whole Farm	Soo all commodities ∑ Round(MAX (0, ∑covIvI _{commodityj} * i=1 j= AY _{commodityj} * ProjPrice _{commodityj} * Acres _{commodityj}) - all commodities ∑ Round(MAX(0, Round(Yield _{commodityjj} * i=	Approved Yield _{commodityj}	P11	43	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. For skip row commodities, the approved yield the converted approved yield from the P15 record with skip row (yield conversion factor) applied.
	AdjStdDev _{commodityj} + AdjMean _{commodityj} ,12)),12) * Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^(Pricecommodityj) * Round(vLnVarcommodityj,12) +	Reported Acreage _{commodityj} (Acres)	P11	49	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acrea report line in the Whole Farm Unit.
	<pre>LnMeancommodityj),12)),12) * Round(Acres_{commodityj},12)), 12)</pre>	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	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole

Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

0091 Barley							
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
	Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		99999999999999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.	
	Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.	
	Price Draw Quanity _{commodityj} i (Price)	ADM		\$99.99999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.	
	Log Variance _{commodityj} (LnVar)	Internal		999999.9999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.	
	log Mean _{commodityj} (LnMean)	Internal		999999.9999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.	
$\frac{SimRPLossesWF}{500}$ Revenue Protection Whole Farm Rate $= \sum_{j=0}^{ A Commodities} X_{j} * AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj}$	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).	
	Revenue Protection Whole Farm Rate	Internal		9999999999999999	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.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
$\frac{SimRPhpeLossesWF}{500}$ Revenue Protection with Harvest Price Exclusion Whole Farm Rate $\frac{all\ commodities}{\sum\limits_{j=}^{c}(covIvI_{commodityj})}*AY_{commodityj}*ProjPrice_{cor}$ $Acres_{commodityj})$	· · · · · · · · · · · · · · · · · · ·	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999		For Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
	$= \frac{10 \text{ commodities}}{\sum (\text{covIvI}_{\text{commodityj}} * \text{AY}_{\text{commodityj}} * \text{ProjPrice}_{\text{commodityj}} *}$	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999999999	Round to 8 decimals.	
	Acres _{commodityj})	Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999		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		99999999999999999	None	
When Insurance Plan Code e Exclusion, "03":	equals Revenue Protection with Harvest Price						
Whole Farm Base = Premium Rate	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999999999	None	

Section 8: Premium Rate

The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0091 Barley

	0091 Barley					
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	_
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Mhen Unit Structure Code equals Whole Farm Unit, "WU": MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Premium Rate = 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		99999999999999999999	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": MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		9999999999999999	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 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Poncorn
 0067 Dry Peas
 0081 Soybeans

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0018 Rice
 0091 Barley

						0091 Barley				
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules				
Section 9: Total Premium Amount, Subsidy Amount, and Producer Premium Amount										
Premium Liability Amount * Premium Rate * Preliminary Total = Experience Factor * Premium Surcharge Percent * Premium = Total Premium Multiplicative Optional Rate Adjustment Factor	Preliminary Total Premium	Internal		999999999	Round to whole number.					
	Experience Factor	P11	48	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	P11	92	999999999	Round to whole number.					
Total Premium Amount = Preliminary Total Premium * Multiple Commodity Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.				
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	90	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 24 for subsidy calculations.				
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".				
Producer Premium = Total Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P11	93	999999999	Round to whole number.					

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	02 Revenue Protection			03 Revenue Protection with Harvest Price Exclusion			
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn	0041 Corn				0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley		
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		

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.

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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

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.

Malting Barley Option B may allow Yield Exclusion for RY 2015. This is only applicable if the offer permitsand only when the Adjusted Yield is less than or equal to the Approved Yield. Otherwise, not applicable. See the calculation method of Section 15 and forward for YE/TA as reference.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

0091 Barley

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

Field Field <u>Field</u> **Field** Record Number Calculations Name Number **Format** Rounding Rules Section 10: Liability Calculation Approved Yield calculated in accordance with the According to the Malting Barley Price and **Basic Provisions** Quality Endorsement, the Approved Yield can be based on either the procedures established Approved Yield = OR Approved Yield P11 43 99999999.99 in the Basic Provisions, or by averaging the yields required to meet the qualifications for ∑(Number of Bushels / Reported Acreage) / ∑ Option A. number of years Premium Guarantee Common Crop Insurance Policy definition Round to 1 decimals. Internal 99999999.99 Per Acre Amount 'production guarantee (per acre)'. Premium Guarantee Per = Approved Yield * Coverage Level Percent Acre Amount Approved Yield P11 43 99999999.99 None P14 34 9.9999 Coverage Level Percent 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 Price Election Amount = Additional Value Price Price Election Amount Internal 9999.9999 None 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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

						0091 Barley
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	Number	<u>Format</u>	Rounding	Rules
						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.
Reported Acreage (Record 1) = $\frac{\text{MIN}(\text{Total Reported Acreage, Malting Barley Contract 1 Bushels / Approved Yield)}}{\text{Contract 1 Bushels / Approved Yield)}}$ Reported Acreage (Record 2) = $\frac{\text{Record 1, Malting Barley Contract 2 Bushels / Approved Yield)}}{\text{Approved Yield)}}$ MIN(Total Reported Acreage - $\frac{\times 1}{\text{Min}(\text{Total Reported Acreage - Minormal Malting Barley Contract I, malting Barley Contract X)}}$	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		99999999.99	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 Premium Guarantee Per Acre Amount * Guarantee Amount Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999999		Prevented Planting does not apply to Malting Barley Option A or Malting Barley Option B records.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> **Field** Calculations Name **Record Number** Number **Format** Rounding Rules Premium Total Guarantee Premium Guarantee Per Acre Amount * Price Premium Total Internal 9999999.99 Round to 2 decimals. Election Amount * Reported Acreage Amount Guarantee Amount Guarantee Per Acre Amount * Price Election Amount Total Guarantee Total Guarantee Amount = 100 9999999.99 Round to 2 decimals. P11 * Reported Acreage Amount Premium Total Guarantee Amount * Insured Share Premium Liability Round to whole 999999999 Premium Liability Amount = Internal Percent Amount number. Round to whole Liability Amount 91 999999999 Liability Amount = Total Guarantee Amount * Insured Share Percent P11 number. Section 11: Premium Rate 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 3 of these procedures as if it was a normal Yield Protection Plan of Insurance using the rating components for the regular Barley offer. Premium Rate Internal 9999999999999999 Round to 8 decimals. 3) Find the Basic Unit Discount Factor to be applied later from section 2 of these procedures as if it was a normal Yield Protection Plan of MIN(.999, Base Premium Rate * Unit Structure Insurance Premium Rate = Discount Factor * Multiplicative Optional Rate 4) Find the applicable Malting Barley Option Adjustment Factor+ Additive Optional Rate Factor) 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 Internal 999999.9999 Rate Adjustment Factor Additive Optional Rate Internal 999999.9999 Adjustment Factor

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0081 Soybea 0081 Soybea 0081 Soybea 0081 Soybea 0081 Soybea 0081 Soybea 0081 Soybea

<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Section 12: Total Premium Amount, Subsidy Amount, and Producer Premium Am	ount					
Premium Liability Amount * Premium Rate * = Experience Factor * Premium Rate Surcharge Premium Percent	Preliminary Total Premium	Internal		999999999	Round to whole number.	
	Experience Factor	P11	48	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
	Premium Rate Surcharge Percent					
Preliminary Total Premium * Multiple Commodity Total Premium Amount =	Total Premium Amount	P11	92	999999999	Round to whole number.	
Adjustment Factor	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Subsidy Amount = Total Promium Amount * Subsidy Parcent	Subsidy Amount	P11	90	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 24 for subsidy calculations.
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium = Total Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P11	93	999999999	Round to whole number.	

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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0091 Barley								
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>	
Section 13: Liability Calcula	tion							
		Modified Yield	Internal		99999999.99	Round to whole Number.		
Modified Yield = Approved Yield * Option Conversion Factor	Approved Yield	P11	43	99999999.99	None	From Cotton P11 record. For skip row cotton, the approved yield is the converted approved yield from the P15 record with skip row (yield conversion factor) applied.		
			ADM		9.9999	None	Edit with ADM Option Rate, "A01060".	
Premium Guarantee Per = Modified Yield * Coverage Level Percent Acre Amount	Premium Guarantee Per Acre Amount	Internal		999999999.99	Round to whole number.			
		Coverage Level Percent	P14	34	9.9999	None		
Guarantee Per Acre	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P":	Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.		
Amount	Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	72	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	Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.		
Amount	Election Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None		
		Reported Acreage	P11	49	9999999.99	None	From Cotton P11 record.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> **Field Record Number** Calculations Name Number **Format** Rounding Rules Total Guarantee P11 100 9999999.99 Round to 2 decimals. Guarantee Per Acre Amount * Price Election Amount Amount Total Guarantee Amount = * Reported Acreage Price Election Amount Internal 9999.9999 None P11 Reported Acreage 49 999999.99 None From Cotton P11 record. Premium Liability Round to whole Internal 999999999 Amount number. Premium Total Guarantee Amount * Insured Share Premium Liability Amount = Percent Insured Share Percent 44 9.9999 None From Cotton P11 record. P11 Round to whole P11 91 999999999 Liability Amount number. Liability Amount = Total Guarantee Amount * Insured Share Percent 9.9999 Insured Share Percent P11 44 None From Cotton P11 record. Section 14: Premium Rate To Determine the Premium Rate for the Cottonseed records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 3 of these procedures using the rating components for regular Cotton offer. If Yield Exclusion is elected, see section 26 for the current year base premium rate calculation Premium Rate Internal 99999999999999999 Round to 8 decimals. if the Effective Coverage Level exceeds the MAX ADM coverage level. 3) Find the Unit Structure Discount Factor to be MIN(.999, Base Premium Rate * Unit Structure applied later from section 2 of these procedures Premium Rate = Discount Factor * Multiplicative Optional Rate for regular Cotton offer. Adjustment Factor+ Additive Optional Rate Factor) 4) Find the applicable Option Factors to be applied later from section 4 for regular Cotton 5) Sections 5, 6, 7 are not applicable for Cottonseed records.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley <u>Field</u> Field <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Multiplicative Optional Internal 999999.9999 Rate Adjustment Factor Additive Optional Rate Internal 999999.9999 Adjustment Factor Section 15: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Preliminary Total Round to whole Internal 999999999 Premium number. Premium Liability Amount * Premium Rate * Preliminary Total Experience Factor is only applicable for = Experience Factor * Premium Rate Surcharge **Experience Factor** P11 48 9.999 None Premium Insurance Plan Code Yield Protection, "01". Percent Premium Rate Surcharge Percent Round to whole Total Premium Amount P11 92 999999999 Preliminary Total Premium * Multiple Commodity number. Total Premium Amount = **Adjustment Factor** Multiple Commodity ICE 9999.999 Edit with ICE Multiple Cropping, "D00063". None Adjustment Factor If this record qualifies for Beginning Farmer and Round to whole 90 999999999 Rancher or Native Sod, see Section 24 for Subsidy Amount P11 number. Subsidy Amount = Total Premium Amount * Subsidy Percent subsidy calculations. Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium = Total Premium Amount - Subsidy Amount Producer Premium Round to whole P11 93 999999999 Amount Amount number. Trend Adjustment Option (TA) and Yield Exclusion Option (YE) ONLY available in select APH Yield Trend (Trend Adjustment Option 'TA') and Yield Exclusion (Option 'YE') counties for selected crops. See "white papers" for examples.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field <u>Field</u> Field <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Section 16: Effective Coverage Level Calculation Effective Coverage Rounded to 2 decimal 99.9999 Internal places. Level Percent 34 9.9999 None Coverage Level Percent P14 For APH Trend and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield. Approved Yield 9999999.99 P11 73 None Effective Coverage Level _ Coverage Level Percent * Approved Yield/Adjusted For skip row commodities, the approved yield is Percent Yield the converted approved yield from the P15 record with skip row (yield conversion factor) applied. For skip row commodities, the adjusted yield is the converted adjusted yield from the P15 Adjusted Yield 44 P15 9999999.99 None record with skip row (yield conversion factor) applied. When Trend Adjustment Option (TA) was Section 17: Rate Differential Factor chosen and yield reflects a trend or when Yield Exclusion Option "YE" was chosen. Round to 9 decimal Rate Differential Factor Internal 9.99999999 places

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

0019 VICE	0045 Popcom	0007 Dry Peas				0091 Barley
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Rate Differential Factor = Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Base Rate Differential Factor	ADM		9.99999999	None	Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	Upper Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
	Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater
	Effective Coverage Level Percent	Internal		99.9999	None	

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

						0091 Barley
Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
	Prior Year Rate Differential Factor	Internal		9.99999999	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".

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Exhibit Name: Premium Calculation

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

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0041 Corn 0078 Sunflowers 0015 Canola 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley <u>Field</u> <u>Field</u> <u>Field</u> **Field Calculations** Name **Record Number** Number **Format** Rounding Rules 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 **Upper Bound Prior Year** ADM 9.99999999 None based on the higher ADM Coverage Level. Rate Differential Factor If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

8 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybean: 0091 Barley

						0091 Barley
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
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		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		99.9999	None	
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

Section 18: Unit Residual Factor

The lookup/interpolation/extrapolation procedure for 'Unit Residual Factor and Prior Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Exclusion Option "YE" was chosen.

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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

0075 Peanuts

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans

 0015 Canola
 0041 Corn
 0051 Grain Sorghum

 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

0018 KICE	0043 Popcorn			0067 Dry Peas		0091 Barley
	<u>Field</u>		Field	Field	Field	<u> </u>
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor = Unit Residual Factor = 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		99.9999	None	
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Version: Approved
Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

						0091 Barley
Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	Prior Year Unit Residual Factor		Number	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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

						0091 Barley
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Prior Year Unit Residual Factor Prior Year Unit Residual Factor Round(Base Prior Year Unit Residual Factor + (Upper 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	
	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 Levels. If the Effective Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Exhibit Name: Premium Calculation

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

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Record Name: Acreage version: A
Record Code: P11 Release Date: 9

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

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	Number	<u>Format</u>	Rounding	<u>Rules</u>

When Unit Structure Code is equal to Enterprise Unit, 'EU' or 'EP', 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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

0075 Peanuts

0078 Sunflowers

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans

 0015 Canola
 0041 Corn
 0051 Grain Sorghum

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

		•		0091 Barley			
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
Enterprise Unit Residual Factor		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		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0001 Barley

<u>Calculations</u>	Field Name Prior Year Enterprise Unit Residual Factor	Record Number	<u>Field</u> <u>Number</u>	Field Format 999.999	Field Rounding Round to 3 decimal	Rules The cap value for the Residual Factors is the
		Internal		999,999	Round to 3 decimal	
					places.	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".
Round(Base Enterprise Prior Year U	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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

		•	0091 Barley				0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Prior Year Enterprise Unit Residual Factor	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		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level 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.

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Record Name: Acreage

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Release Date: 9/20/2018 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** 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: The cap value for the Residual Factors is the Whole Farm Unit Round to 3 decimal 999.999 Internal MAX(Residual Factor) from all coverage levels Residual Factor places. within the chosen unit structure 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 Base Whole Farm Unit ADM 999.999 None Effective Coverage Level. Edit with ADM Residual Factor Coverage Level Differential, "A01040". 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 Upper Bound Whole between existing ADM Coverage Levels then Farm Unit Residual ADM 999.999 None this will be based on the higher ADM Coverage Factor 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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0091 Barley

0091 Barley								
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>			
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
	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		99.9999	None			
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.		

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

0018 NICE	оо43 горсотт		0007 DIV reas			0091 Barley	
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
	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.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

	0018 RICE	0043 Popcom			0067 Dry Peas		0081 Soybeans
		1			1	1	0091 Barley
		<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Record Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
Prior Year Whole Farm Unit Residual Factor	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.
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level 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 Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0041 Corn 0078 Sunflowers 0015 Canola 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley <u>Field</u> <u>Field</u> **Field** <u>Field</u> **Calculations** Name Record Number Number **Format** 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) or Yield Exclusion Option (YE) was chosen and yield reflects a trend.

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

Unit Structure Discount Factor	Internal	9.99999999	Round to 4 decimal places.	Capped at 1.0
Base Coverage Level Percent Optional Unit Discount Factor	ADM	9.99999999	None	Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Upper Bound Coverage Level Percent Optional Unit Discount Factor	ADM	9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

		<u>Field</u>	,	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	Rules
Unit Structure Discount Factor		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.
		Effective Coverage Level Percent	Internal		99.9999	None	
		Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level 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.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

0075 Peanuts

<u>Insurance Plan Code</u> 01 Yield Protection 02 Revenue Protection 03 Revenue Protection 03 Revenue Protection 05 Revenue Protection 05 Revenue Protection 06 Revenue Protection 07 Revenue Protection 07 Revenue Protection 08 Revenue Protection 09 Revenue Protection 09

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum

 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

0018 Rice	0043 Popcorn	0067 Dry Peas			0081 Soybeans	
						0091 Barley
	<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation	on for Unit Structure Disc	ount Factor:				
	Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0
Round(Base Coverage Level Percent Basic Unit	Base Coverage Level Percent Basic Unit Discount Factor	ADM		9.99999999	None	Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Unit Structure Discount Factor Factor 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		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.

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Record Name: Acreage

Reinsurance Year: 2015

Version: Approved

Release Date: 9/20/2018 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Calculations Name **Record Number** Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Coverage existing ADM Coverage Levels then this will be Level Percent Basic Unit ADM None based on the lower ADM Coverage Level. Discount Factor 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 99.9999 Internal None Level Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective Internal 99.9999 None the lower ADM Coverage Level. Coverage Level Percent 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 Enterprise Unit, 'EU' or 'EP', use the following calculation for Unit Structure Discount Factor:

Unit Structure Discount	Internal	9.99999999	Round to 4 decimal	Capped at 1.0
Factor	internal	3.333333333	places.	capped at 1.0

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

OUIS NICE	0043 r opcom	ropcom 0007 biy reas				0091 Barley	
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules	
	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		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0091 Barley

							0091 Barley
<u>c</u>	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Unit Structure Discount = P Factor = B	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 - 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.

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley Field Field <u>Field</u> Field <u>Num</u>ber Calculations Name **Record Number Format** Rounding Rules Effective Coverage Internal 99.9999 None Level Percent Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be Floored Effective the lower ADM Coverage Level. 99.9999 None Internal If the Effective Coverage Level is greater than Coverage Level Percent the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. Written Agreement Rate Information 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 Section 20: Written Agreement Rate Calculation 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 Internal 9.9999 None Reference Rate ADM 9.9999 None Edit with ADM Base Rate, "A01010". (Round(Reference Rate + Fixed Rate) * Written Fixed Rate ADM 9.9999 None Edit with ADM Base Rate, "A01010". Reference Rate = Agreement Multiplicative Rate Adjustment,3) - Fixed Rate Written Agreement Multiplicative Rate WA 9.9999 None Adjustment

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
<u>Commodity Code</u>	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0047 Dry Beans 0051 Grain Sorghum 0067 Dry Peas		0075 Peanuts 0078 Sunflowers 0081 Soybeans 0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
		Prior Year Reference Rate	Internal		9.9999	None	
	(Round(Reference Rate + Fixed Rate) * Written	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Prior Year Reference Rate	= Agreement Multiplicative Rate Adjustment, 3) - Fixed	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Rate	Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None	
When WA specifies a Add-o	on Rate:				1	1	
I		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 Desig	nated Rate:				1	1	
Reference Rate	= zero (0)	Reference Rate	Internal		9.9999	None	
Fixed Rate	= Designated Rate	Fixed Rate	Internal		9.9999	None	
Tixed Rate	- Designated Nate	Designated Rate	WA		9.9999	None	
Prior Year Reference Rate	= zero (0)	Prior Year Reference Rate	Internal		9.9999	None	
Prior Voar Eivad Pato	- Designated Pate	Prior Year Fixed Rate	Internal		9.9999	None	
		Written Agreement Designated Rate	WA		9.9999	None	
Section 21: Written Agreer	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.

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Record Name: Acreage

Reinsurance Year: 2015 Version: Approved

Release Date: 9/20/2018 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Record Number Calculations Name Number **Format** Rounding Rules 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 Downed Rice Endorsement (DRE) Option 'DC' 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 Round to whole Internal 999999999 number. Amount Dollar Amount of Edit with ADM Price, "A00810", Fixed Coverage ADM 99999 None Insurance Amount with insurance option = 'DC'. Dollar Amount of Insurance * Reported Acreage * Premium Liability Amount = Insured Share Percent * Price Election Percent Reported Acreage P11 49 9999999.99 None DRE insured share will always be 100% without 9.9999 Insured Share Percent P11 44 None regards to base Rice. ICE Price Election Percent 9.9999 From base Rice P14 record. None Round to whole Liability Amount P11 91 999999999 number. Dollar Amount of Edit with ADM Price, "A00810", Fixed Coverage ADM 99999 None Insurance Amount with insurance option = 'DC'. Dollar Amount of Insurance * Reported Acreage * Liability Amount = Insured Share Percent * Price Election Percent Reported Acreage P11 49 999999.99 None DRE insured share will always be 100% without 9.9999 None Insured Share Percent P11 44 regards to base Rice. 9.9999 Price Election Percent ICE None From base Rice P14 record.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Popcorn 0067 Dry Peas 0081 Soybeans 0091 Barley **Field** Field **Field** <u>Field</u> Calculations Name **Record Number** Number Format Rounding Rules Section 23: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Preliminary Total Round to whole Internal 999999999 Premium number. Preliminary Total = Premium Liability Amount * Premium Rate Edit with ADM Option Rate, "A01060", rate with None Premium Rate ADM insurance option = 'DC'. Round to whole Total Premium Amount = Preliminary Total Premium Total Premium Amount P11 92 999999999 number. If this record qualifies for Beginning Farmer and Round to whole Subsidy Amount P11 90 999999999 Rancher or Native Sod, see Section 24 for number. Subsidy Amount = Total Premium Amount * Subsidy Percent subsidy calculations. Edit with ADM Subsidy Percent, "A00070". Will Subsidy Percent ADM 9.999 None always be 38% for DRE. Producer Premium Amount - Subsidy Amount - Amount Producer Premium Round to whole P11 93 999999999 Amount number. Section 24: Beginning Farmer and Rancher (BFR) and Native Sod (NS) Subsidy Calculations Round to whole Base Subsidy Amount Internal 999999999 Cupped by the standard rule of \$1 if applicable. number Base Subsidy Amount = Total Premium Amount * Subsidy Percent Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Beginning Farmer Rancher Subsidy Amount. Round to whole BFR Subsidy Amount = Total Premium Amount * 0.10 **BFR Subsidy Amount** Internal 999999999 If Applicable; else 0. number 0.10 (10%). If Applicable; else 0. Native Sod Subsidy = Total Premium Amount * 0.50 Native Sod Subsidy Round to whole 0.50 (50%). Internal 999999999 Amount number For CAT coverage, Native Sod Subsidy Amount is always 0. $\mbox{Subsidy Amount - Base Subsidy Amount + BFR Subsidy Amount - Native Sod Subsidy Amount} \label{eq:Subsidy Amount}$ Round to whole Subsidy Amount cannot exceed Total Premium Subsidy Amount P11 90 999999999 Amount. Subsidy Amount will be cupped at \$0. number Producer Premium Amount - Subsidy Amount - Subsidy Amount **Producer Premium** Round to whole P11 93 999999999 Amount number

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> Field Calculations Name Record Number Number **Format** Rounding Rules Section 25: Yield Exclusion Current Year Base Premium Rate Calculations (only use when the Effective Coverage Level for the record exceeds the highest coverage level for the offer in the ADM) **Unadjusted Liability** Round to whole Internal 999999999 Amount number Coverage Level Percent P14 34 9.9999 None Unadjusted Liability Round((Coverage Level Percent/Effective Coverage Amount Level Percent),10) * Premium Liability Amount Effective Coverage Internal 99.9999 Level Percent Premium Liability Round to whole Internal 999999999 Amount number Max Coverage Level Round to 8 decimals. Internal 999999999.99999999 Adjustment Factor **Unadjusted Liability** Round to whole Internal 999999999 Amount number Current Year Base Rate Internal When Unit Structure Code is equal to Optional Unit, "OU", "UA" &"UD:: Premium Liability Round to whole Internal 999999999 Amount number ROUND(1.00/ Current Year Base Rate,8) -Base Rate Differential ADM None 9.99999999 ROUND(Unadjusted Liability Amount/(Current Year Factor Base Rate * Premium Liability Amount),8) + Base Unit Residual ADM 999.999 None ROUND(ROUND(Base Rate Differential Factor * Base Factor Unit Residual Factor * Base Optional Unit Structure Base Optional Unit Structure Discount Factor is Discount Factor * Unadjusted Liability equal to Optional Unit Discount Factor for Amount,8)/Premium Liability Amount,8) Base Optional Unit Minimum of 1) Maximum available Coverage ADM 9.99999999 Structure Discount None Level or; 2) available Coverage Level less than or Factor equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info.

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Record Name: Acreage Record Code: P11

Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

0047 Dry Beans 0011 Wheat 0021 Cotton 0075 Peanuts 0051 Grain Sorghum **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflowers 0018 Rice 0043 Poncorn 0067 Dry Peas

0081 Soybeans

	0018 Rice	0043 Popcorn			0067 Dry Peas		0081 Soybeans
			-				0091 Barley
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Max Coverage Level	When Unit Structure code is Basic Unit, "BU": ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Base Basic Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Base Basic Unit Structure Discount Factor	ADM		9.99999999	None	Base Basic Unit Structure Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00.
Adjustment Factor	When Unit Structure code is Enterprise Unit, "EU" or & "EP": ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Enterprise Unit Residual Factor * Base Enterprise	Base Enterprise Unit Structure Discount Factor	ADM		9.999999999	None	Base Enterprise Unit Structure Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 19 for more info. When the total planted acres for the unit is 0 (all acres are prevented planted) set to 1.00.
	Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Base Enterprise Unit Residual Factor	ADM		999.999	None	Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Whole Farm Unit "WU": BOUND(1.00/ Current Year Base Bate 9)	Unit Structure Discount	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
	ROUND(1.00/ Current Year Base Rate,8) — ROUND(Unadjusted Liability Amount/(Current Year Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Whole Farm Unit Residual Factor * Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	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".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

	0091 Barley								
		<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>			
	<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>		
		Marginal Adjustment Rate Factor	Internal		9.9999999	Round to 8 decimals.			
		Max Coverage Level Adjustment Factor	Internal		999999999999999	Round to 8 decimals.			
Differential Factor * Unit Structure Discount Factor	Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit Structure Discount Factor)	Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
		Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
Marginal Rate Adjustment Factor	nt =	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).		
"EP": Max Coverage Level Adjustment Factor /(Rate	Max Coverage Level Adjustment Factor /(Rate Differential Factor * Enterprise Unit Residual Factor	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.		
	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Unit, 'WU'.			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

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

 Commodity Code
 0011 Wheat
 0021 Cotton
 0047 Dry Beans
 0075 Peanuts

 Commodity Code
 0015 Canola
 0041 Corn
 0051 Grain Sorghum
 0078 Sunflowers

 0018 Rice
 0043 Popcorn
 0067 Dry Peas
 0081 Soybeans

 0091 Barley

		<u>Field</u>		<u>Field</u>	<u>Field</u>	<u>Field</u>	0091 Barley
	<u>Calculations</u>	<u>Name</u>	Record Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
		Current Year Base Premium Rate	Internal		9999999999999999999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Rate Differential Factor	ADM		9.999999999		Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion).
	Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
Current Year Base		Marginal Rate Adjustment Factor	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
Premium Rate	When Unit Structure code is Enterprise Unit, "EU" or & "EP": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.
=	When Unit Structure code is Whole Farm Unit, "WU": Round(Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend Adjustment) and "YE" (Yield Exclusion) where Unit Structure Code equal to Whole Farm Uni 'WU'.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2015 Version: Approved Release Date: 9/20/2018

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0047 Dry Beans 0075 Peanuts **Commodity Code** 0051 Grain Sorghum 0015 Canola 0041 Corn 0078 Sunflowers 0067 Dry Peas 0018 Rice 0043 Popcorn 0081 Soybeans 0091 Barley Field Field <u>Field</u> <u>Field</u> Calculations Name Record Number Number **Format** Rounding Rules Section 26: Yield Exclusion for Cottonseed -- Current Year Base Premium Rate Calculations (only use when the Effective Coverage Level for the record exceeds the highest coverage level for the offer in the ADM). **Current Year Base** Internal 9999999999999999 Round to 8 decimals. Premium Rate Edit with ADM Coverage Level Differential, "A01040". When Unit Structure Code is equal to Optional Rate Differential Factor ADM 9.99999999 None See Section 17 for Option Code "TA" (Trend Unit, "OU", "UA", "UD", or Basic Unit, "BU": Adjustment) and "YE" (Yield Exclusion). Edit with ADM Coverage Level Differential, Round(Current Year Base Rate * Rate Differential "A01040". Factor * Unit Residual Factor, 8) * MIN(Marginal See Section 18 for Option Code "TA" (Trend Rate Adjustment Factor, 1.00) Unit Residual Factor ADM 999,999 None Adjustment) and "YE" (Yield Exclusion) where **Current Year Base** Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'. Premium Rate Marginal Rate Round to 8 decimals. Internal 9999999999999999 Copy value over from the base lint line. Adjustment Factor When Unit Structure Code is is Enterprise Unit, Edit with ADM Coverage Level Differential, "EU" or "EP": "A01040". **Enterprise Unit** See Section 18 for Option Code "TA" (Trend ADM 9 999 None Round(Current Year Base Rate * Rate Differential Residual Factor Adjustment) and "YE" (Yield Exclusion) where Factor * Enterprise Unit Residual Factor, 8) * Unit Structure Code equal to Enterprise Unit, MIN(Marginal Rate Adjustment Factor, 1.00) 'EU' or 'EP'.

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