Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules **Section 1: Liability Calculation** If Unit of Measure eguals Pounds "LBS", then round to whole number. Premium Guarantee Per Acre If Unit of Measure Common Crop Insurance Policy definition Internal 99999999.99 equals Tons "TONS", 'production guarantee (per acre)'. Amount then round to 2 decimals. Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent Otherwise, round to 1 decimal. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted Approved Yield P11 46 9999999.99 None yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) For APH Trend the Coverage Level Percent in 9.9999 this section is ALWAYS the chosen coverage Coverage Level Percent P14 34 None level and NOT the Effective Coverage Level. When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": If Unit of Measure equals Pounds "LBS". then round to whole number. Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor If Unit of Measure Guarantee Per Acre Amount Internal 99999999.99 Guarantee Per Acre equals Tons "TONS", Amount then round to 2 decimals. Otherwise, round to 1 decimals. Edit with the Guarantee Adjustment ICE, Guarantee Adjustment Factor P11 75 0.999 None "D00068"

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code01 Yield Protection02 Revenue Protection03 Revenue Protection with Harvest Price ExclusionCommodity Code0011 Wheat0021 Cotton0051 Grain Sorghum
0078 Sunflower0091 BarleyCommodity Code0015 Canola
0018 Rice0041 Corn
0043 Popcorn0078 Sunflower

0018 Rice	0043 Popcorn			0081 Soybeans		
	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
	Price Election Amount	Internal		9999.9999	When Commodity Code equals Barley, "0091", Corn, "0041", Cotton, "0021", Grain Sorghum, "0051", Soybeans, "0081" or Wheat, "0011"; round to nearest whole cent [\$9.99]. If result is based on Contract Price for specialty type Soybeans or Barley; round to neareat one hundredth cent (\$9.9999). When Commodity Code equals Canola, "0015", Rice, "0018", Sunflowers, "0078"; round to nearest one- tenth cent [\$9.999]. When Commodity Code equals Popcorn, "0043", round to nearest one- hundredth cent [\$9.9999].	

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Exhibit Name: Premium Calculation

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

Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Record Code: P11

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	<u>Calculations</u>	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	Rules
		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 o the Projected Price. Edit with ADM Price, "00810".
		Contract Price	P11	50	9999.9999	None	For Yield Protection, "01", Contract Price may be used in lieu of the Projected Price for specialty types of 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 specialty type of 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 Soybean and Barley as specified in the Special Provisions.
		Price Election Percent	ICE		9.9999	None	Price Election Percent must equal 1.000, when Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice 0043 Popcorn 0081 Soybeans						
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
Dramitum Tatal Cuaranta	Drawium Cuarantee Day Assa Amaunt * Drice Floring	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
	= Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None	
Amount		Reported Acreage	P11	52	99999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
		Total Guarantee Amount	P11	100	99999999.99	Round to 2 decimals.	
Total Guarantee Amount	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Price Election Amount	Internal		9999.9999	None	
	Reported Acreage	Reported Acreage	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
Promium Liability Amount	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole	
Freimum Liability Amount	- Fremium Total Guarantee Amount - msureu share Fercent	Insured Share Percent	P11	47	9.9999	None	
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.	
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Insured Share Percent	P11	47	9.9999	None	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
Section 2: Base Premium Ra	te Calculation						
		Current Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Current Year Yield Ratio =	Rate Yield / Reference Amount	Rate Yield	P15	35	99999999.99	None	
		Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
		Prior Year Yield Ratio	Internal		9.9999	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Prior Year Yield Ratio =	Rate Yield / Prior Year Reference Amount	Rate Yield	P15	35	99999999.99	None	
		Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Current Year Rate Multiplier	Current Year Rate = Current Year Yield Ratio ^ Exponent Value		Internal		9999.99999999	Round to 8 decimals.	
iviuitipiier		Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".
Prior Year Rate Multiplier =	Prior Year Yield Ratio ^ Prior Year Exponent Value	Prior Year Rate Multiplier	Internal		9999.99999999	Round to 8 decimals.	
		Prior Year Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".
	When Rate Method Code is Fixed, "F":	Current Year Base Rate	Internal		99999999999999999	Round to 8 decimals.	
=	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":						
= 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 Page Day "ACCCC"
= 5	Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010". See Section 20 for Written Agreement Rate Information.
_	Otherwise:	Fixed Rate	ADM		9,9999	None	Edit with ADM Base Rate, "A01010". See Section 20 for Written Agreement Rate
-	Current Year Rate Multiplier * Reference Rate + Fixed rate	Tived rate	ADIVI		J.JJJJ	INOTIC	Information.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0081 Soybeans 0018 Rice 0043 Popcorn Field Record Field Field <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Round to 8 decimals. Prior Year Base Rate Internal 9999999999999999 When Rate Method Code is Fixed, "F": Edit with ADM Sub County Rate, "A01050". Sub County Rate ADM 99.9999 None See Section 21 for Written Agreement Sub Sub County Rate County Rate information. When Rate Method Code is Additive, "A": 9999.9999999 Prior Year Rate Multiplier Internal None Sub County Rate + (Prior Year Rate Multiplier * Prior Year Prior Year Base Rate Reference Rate + Prior Year Fixed Rate) When Rate Method Code is Multiplicative, "M": Edit with ADM Base Rate, "A01010". ADM 9.9999 None See Section 20 for Written Agreement Rate Prior Year Reference Rate Sub County Rate * (Prior Year Rate Multiplier * Prior Year Information. Reference Rate + Prior Year Fixed Rate) Otherwise: Edit with ADM Base Rate, "A01010". See Section 20 for Written Agreement Rate Prior Year Fixed Rate ADM 9.9999 None Prior Year Rate Multiplier * Prior Year Reference Rate + Information. Prior Year Fixed rate

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Current Year Base Premium Internal 9999999999999999 Round to 8 decimals. Rate Edit with ADM Coverage Level Differential, When Unit Structure Code is equal to Optional Unit, "OU", "A01040". "UA", "UD", or Basic Unit, "BU": Rate Differential Factor ADM 9.99999999 None See Section 17 for Option Code "TA" (Trend Adjustment). Edit with ADM Coverage Level Differential, Round(Current Year Base Rate * Rate Differential Factor * "A01040". Unit Residual Factor, 8) See Section 18 for Option Code "TA" (Trend ADM 999.999 None Unit Residual Factor Adjustment) and Unit Structure Code equal to **Current Year Base** Optional Unit, "OU", "UA", "UD", or Basic Unit, Premium Rate Edit with ADM Coverage Level Differential, When Unit Structure code is Enterprise Unit, "EU": "A01040". 9.999 **Enterprise Unit Residual Factor** ADM None See Section 18 for Option Code "TA" (Trend Round(Current Year Base Rate * Rate Differential Factor * Adjustment) and Unit Structure Code equal to Enterprise Unit Residual Factor, 8) Enterprise Unit, 'EU'. Edit with ADM Coverage Level Differential, When Unit Structure code is Whole Farm Unit, "WU": "A01040". Whole Farm Unit Residual ADM 9.999 None See Section 18 for Option Code "TA" (Trend Round(Current Year Base Rate * Rate Differential Factor * Factor Adjustment) and Unit Structure Code equal to Whole Farm Unit Residual Factor, 8) Whole Farm Unit, 'WU'.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0021 Cotton 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field Rounding **Calculations** Name Number Number **Format** Rules When Unit Structure Code is equal to Optional Unit, Prior Year Base Premium Rate Internal 9999999999999999 Round to 8 decimals. "OU", "UA", "UD", or Basic Unit, "BU": Edit with ADM Coverage Level Differential, Prior Year Rate Differential "A01040". ADM 9.99999999 None Round(Prior Year Base Rate * Prior Year Rate Differential See Section 17 for Option code "TA" (Trend Factor * Prior Year Unit Residual Factor, 8) Adjustment). Edit with ADM Coverage Level Differential, "A01040". See Section 18 for Option Code "TA" (Trend 999,999 Prior Year Unit Residual Factor ADM None Adjustment) and Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, Prior Year Base Premium Rate Edit with ADM Coverage Level Differential, When Unit Structure code is Enterprise Unit, "EU": "A01040". Prior Year Enterprise Unit ADM 9.999 None See Section 18 for Option Code "TA" (Trend Round(Prior Year Base Rate * Prior Year Rate Differential Residual Factor Adjustment) and Unit Structure Code equal to Factor * Prior Year Enterprise Unit Residual Factor, 8) Enterprise Unit, 'EU'. Edit with ADM Coverage Level Differential, When Unit Structure code is Whole Farm Unit, 'WU': "A01040". Prior Year Whole Farm Unit ADM 9.999 None See Section 18 for Option Code "TA" (Trend Round(Prior Year Base Rate * Prior Year Rate Differential Residual Factor Adjustment) and Unit Structure Code equal to Factor * Prior Year Whole Farm Unit Residual Factor, 8) Whole Farm Unit, 'WU'. MIN (Current Year Base Premium Rate, Prior Year Base P11 Base Premium Rate Base Premium Rate 94 9999999999999999 Round to 8 decimals. Premium Rate * 1.2, .999) MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, Revenue Lookup Rate Revenue Lookup Rate Internal 99999999999999 Round to 4 decimals.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

	Record Code:	: P11	Release Date: 10/6/2015						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion		
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley		
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower				
	0018 Rice	0043 Popcorn	T -	_	0081 Soybeans		_		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>		
tion 3: Unit Discount Cal	culation						The appropriate discount factor should be looked up and applied.		
en Commodity Code is N	IOT EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041",	or Soybeans, "0081".							
	When the Unit Structure Code is Optional Unit, "OU", "UA", "UD", Basic Unit, "BU", or Enterprise Unit, "EU":	Revenue Lookup Adjustment	Internal		9.9999999	None			
Revenue Lookup	Unti Structure Discount Factor	ractor							
Adjustment Factor	When the Unit Structure Code is Whole Farm Unit "WU": Unit Structure Discount Factor for Enterprise Unit"EU"	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 From below for Unit Structures "OU, UA, BU, or EU".		
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.9999999	None	capped at 1.0		
	Optional Unit Discount Factor	Optional Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".		
	When Unit Structure Code is Basic Unit, "BU": Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".		
	Dasic Utili Discontit Factor								

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field Field **Calculations** Number Number **Format** Rounding Name Rules Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be Unit Structure Discount included in the Enterprise Unit. This includes Factor both fall and spring planted acreage. When the Unit Structure Code is Enterprise Unit, "EU": Enterprise Unit Discount Factor is contingent Enterprise Unit Discount Factor ADM 9.999 None upon the sum of the reported acres which were **Enterprise Unit Discount Factor** 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules When Commodity Code is EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081". Revenue Lookup Adjustment Internal 9.9999999 None When the Unit Structure Code is Optional Unit, "OU", Factor "UA", or "UD": Capped at 1.0 Unti Structure Discount Factor From below for Unit Structure "OU", "UA", or Unit Structure Discount Factor Internal 9.99999999 None "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": the sum of the reported acres which were not Basic Unit Discount Factor ADM 9.999 None 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, "EU" or Enterprise Unit Discount Factor is contingent Whole Farm Unit "WU": upon the sum of the reported acres which were **Enterprise Unit Discount Factor** ADM 9.999 None not prevented from planting for all applicable Enterprise Unit Discount Factor for 65% Coverage Level units being greater than or equal to the Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for 65% Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

	Record Coo	de: P11	e: P11 Release Date: 10/6/2015								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion				
Commodity Code	0011 Wheat 0015 Canola	0021 Cotton 0041 Corn			0051 Grain Sorghum 0078 Sunflower		0091 Barley				
	0018 Rice <u>Calculations</u>	0043 Popcorn Field Name	Record Number	<u>Field</u> <u>Number</u>	0081 Soybeans Field Format	<u>Field</u> <u>Rounding</u>	Rules				
	When the Unit Structure Code is Optional Unit, "OU", "UA", or "UD":	Unit Structure Discount Factor	Internal		9.99999999	None	Capped at 1.0 See Section 19 for Option Code "TA" (Trend Adjustment).				
	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).				
	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 no prevented from planting for the unit being greater than or equal to the Area Low Quanti 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).				

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0081 Soybeans 0043 Popcorn Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules Edit with ADM Unit Discount, "A01090" by Coverage Level. Unit Structure Discount Factor 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 When the Unit Structure Code is Enterprise Unit, "EU": Low Quantity and less than or equal to Area 9.999 Enterprise Unit Discount Factor ADM None High Quantity fields contained on the ADM Unit Enterprise Unit Discount Factor 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).

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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

Section 4: Optional Coverage (Additive "A" and Multiplicative "M")

If Option Rate Method Code equal "T' (Total Premium Rate Adjustment) see Section 9.

		Additive Optional Rate Adjustment Factor	Internal	999999.9999	Round to 4 decimals.	
Additive Optional Rate	when Rate Method Code is Additive, "A": ment Factor Doption Rate * Rate Differential Factor	Option Rate	ADM	99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060".
Adjustment Factor		Rate Differential Factor	ADM	9.9999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 17 for Option Code "TA" (Trend Adjustment).
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".

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Record Name: Acreage
Record Code: P11

Reinsurance Year: 2012
Version: Approved
Release Date: 10/6/2015

	Record Code:	P11	Release Date: 10/6/2015						
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola	0021 Cotton 0041 Corn			0051 Grain Sorghum 0078 Sunflower		0091 Barley		
	0018 Rice	0043 Popcorn			0081 Soybeans	_			
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		
Section 5: Revenue Covera	nge Add on Rates (Applicable only for Plans 02 and 03)						It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place the will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.		
		Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.			
Lookup Rate	= Revenue Lookup Rate * Revenue Lookup Adjustment Factor	Revenue Lookup Rate	Internal		999999999999999	Round to 4 decimals.	From Section 2.		
		Revenue Lookup Adjustment Factor	Internal		9.9999999	None	From Section 3.		
		Adjusted Mean Quantity (AdjMean)	Internal		999999.9999999	Round to 8 decimals.			
Adjusted Mean Quantity	= Approved Yield * Mean Quantity / 100	Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cup or floors)		
		Mean Quantity	ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity using Lookup Rate.		

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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			0051 Grain Sorghum 0078 Sunflower 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>
		Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		999999999.9999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity	= Approved Yield * Standard Deviation Quantity / 100	Approved Yield (AY)	P11	46	9999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
	Deviation Quantity		ADM		999.99999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity using Lookup Rate.
LnVar	= Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.9999999	Round to 8 decimals.	
	,,	Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".
InMean	= Ln(Projected Price or Contract Price) – LnVar / 2	log Mean Quantity (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
Emvedi	= Entrojected Thee of contract Thee, Envary 2	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".
		Contract Price	P11	50	9999.9999	None	Contract price as addressed in Section 1, capped with Max Contract Price from ADM.
ield Draw Quantity _{sequence} _{Number}	For Sequence Number 1 to 500 = Yield Draw Quantity	Yield Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030".
Price Draw Quanity _{Sequence} _{Number}	For Sequence Number 1 to 500 = Price Draw Quantity	Price Draw Quantity	ADM		\$99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0021 Cotton 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Simulated Yield Protection Round to 12 Internal 9999999999999999999 Losses Quantity (SimYPLosses) decimals. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted Simulated Yield Protection \sum Round(MAX(0, AY * covlvl - Round(MAX(0, Yield_i * Approved Yield (AY) P11 9999999.99 yield (the approved yield that would have been 46 None Losses Quantity = i=1 AdjStndDev + AdjMean),12)), 12) if TA wasn't selected without the effects to cups or floors) For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See 9.9999 Coverage Level Percent (covlvl) P14 34 None Section 16 for Option Code "TA" (Trend Adjustment). Yield Draw Quantity, (Yield,) ADM \$99.99999999 None Simulated Revenue Protection Round to 12 Internal 999999999999999999 Losses Quantity(SimRPLosses) decimals. For APH Trend, the Approved Yield will be the 500 greater of the Trended yield and the adjusted > Round(MAX(0, AY * covlvl * Round(MAX(ProjPrice, P11 Approved Yield (AY) 46 9999999.99 None yield (the approved yield that would have been Round(MIN(2 * ProjPrice, Round(e^{(Price}i* Simulated Revenue Round(vLnVar,12) + LnMean),12)),12)),12) if TA wasn't selected without the effects to cups Protection Losses = (Round(MAX(0, Yieldi * AdjStdDev + AdjMean),12) For Option Code "TA" (Trend Adjustment) this Quantity will be Effective Coverage Level Percent. See Coverage Level Percent (covlvl) P14 34 9.9999 None Round(MIN(2 * ProjPrice, Round(e(Price) * Section 16 for Option Code "TA" (Trend Round(VLnVar,12) + LnMean),12)), 12))),12) Adjustment). Yield Draw Quantity, (Yield,) ADM \$99.99999999 None **Projected Priced or Contract** Edit with ADM Price, "A00810". Contract Price ADM 99999.9999 None Price (ProjPrice) as addressed in Section 1.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

	Record Code: P11				Release Date: 10/0/2013						
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			0051 Grain Sorghum 0078 Sunflower 0081 Soybeans	0091 Barley					
	Calculations	Field <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>				
	F00	Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.					
Protection with Harvest Price Exclusion Losses		Approved Yield (AY)	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have beeif TA wasn't selected without the effects to cu or floors)				
	Round(e ^{(price} ; * ^{* Round(} ** ^{LnVar} ,12) + LnMean), 12)),,12))),,12)	Coverage Level Percent (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).				
		Projected Priced or Contract Price (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.				

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) Simulated Yield Protection _ (Simulated Yield Protection Losses Quantity / 500) / Simulated Yield Protection Base Internal 999999.9999999 Round to 8 decimals. Effective Coverage Level Percent will replace Base Premium Rate (Approved Yield * Coverage Level Percent) Premium Rate Coverage Level Percent. Simulated Revenue (Simulated Revenue Protection Losses / 500) / (Approved For Option Code "TA" (Trend Adjustment) Simulated Revenue Protection Round to 8 decimals. Protection Base Premium = Yield * Coverage Level Percent * (Projected Price or Internal 999999.9999999 Effective Coverage Level Percent will replace Base Premium Rate Rate Contract Price)) Coverage Level Percent. Simulated Revenue (Simulated Revenue Protection with harvest Price Exclusion Simulated Revenue Protection For Option Code "TA" (Trend Adjustment) Protection with Harvest = Losses Quantity / 500) / (Approved Yield * Coverage level with Harvest Price Exclusion Internal 999999.9999999 Round to 8 decimals. Effective Coverage Level Percent will replace Price Exclusion Base Percent * (Projected Price or Contract Price)) Base Premium Rate Coverage Level Percent. Premium Rate This is a control meant to ensure that the Preliminary Revenue MAX(Simulated Revenue Protection Base Premium Rate premium rate associated with Revenue Preliminary Revenue Protection Protection Premium Add = Simulated Yield Protection Base Premium Rate, 0.01 * Base Internal 999999,99999999 Round to 8 decimals. Protection is at least 1% greater than the basic Premium Add on Rate on Rate Premium Rate) Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0. This is a control meant to ensure that the Preliminary Revenue premium rate associated with Revenue MAX(Simulated Revenue Protection with Harvest Price Preliminary Revenue Protection Protection with Harvest Protection with Harvest Price Exclusion will not = Exclusion Base Premium Rate - Simulated Yield Protection with Harvest Price Exclusion Internal 999999.9999999 Round to 8 decimals. Price Exclusion Add on be less than half of the Base Premium Rate Base Premium Rate, -0.5 * Base Premium Rate) Add on Rate Rate where the Price Volatility Factor is NOT EQUAL to 0.

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Reinsurance Year: 2012

Edit with ADM Historical Revenue Capping,

"A01110".

Version: Approved Record Name: Acreage Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field Calculations Name 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) If there is NOT a corresponding row in the Note: This Section will not apply if record has a Written Agreement. 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 Option is selected, this section does not apply when the Effective Coverage Level is less than 65%. Cup at 0.50 and Cap at 1.50. Capping Yield Ratio Internal 9.99 Round to 2 decimals. Capping Yield Ratio = Rate Yield / Capping Reference Yield Rate Yield P15 35 9999999.99 None Edit with ADM Historical Revenue Capping, Capping Reference Yield ADM 99999.99 None "A01110". Prior Capping Yield Ratio Internal 9.99 Round to 2 decimals. Cup at 0.50 and Cap at 1.50. Prior Capping Yield Ratio = Rate Yield / Prior Capping Reference Yield P15 35 9999999.99 Rate Yield None Edit with ADM Historical Revenue Capping, Prior Capping Reference Yield ADM 99999.99 None "A01110". Capping Rate Multiplier Internal 999999.9999999 Round to 8 decimals. Capping Rate Multiplier = Capping Yield Ratio ^Capping Exponent Value

ADM

S99.999

None

Capping Exponent Value

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0081 Soybeans 0018 Rice 0043 Popcorn Field Field Field Record <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Prior Capping Rate Multiplier 999999.9999999 Round to 8 decimals. Internal Prior Capping Rate = Prior Capping Yield Ratio **^Prior** Capping Exponent Value Edit with ADM Historical Revenue Capping, Prior Capping Exponent Value ADM S99.999 None "A01110". If Rate Method Code = Fixed, "F": Historical Capping Base Rate 999999.9999999 Round to 8 decimals. Internal Sub County Rate If Rate Method Code = Additive, "A": Edit with ADM Sub County Rate, "A01050". ADM 9.9999 None See Section 21 for Written Agreement Sub Sub County Rate Sub County Rate + (Capping Rate Multiplier * Capping County Rate information. Reference Rate + Capping Fixed Rate) **Historical Capping Base** If Rate Method Code = Multiplicative, "M": Edit with ADM Historical Revenue Capping, Capping Reference Rate ADM 9.9999 Sub County Rate * (Capping Rate Multiplier * Capping "A01110". Reference Rate + Capping Fixed Rate) Otherwise: Edit with ADM Historical Revenue Capping, Capping Fixed Rate ADM 9.9999 (Capping Rate Multiplier * Capping Reference Rate + "A01110". Capping Fixed Rate)

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	<u>Number</u>	Number	<u>Format</u>	Rounding	<u>Rules</u>
	If Rate Method Code = Fixed "F":	Historical Prior Capping Base	Internal		999999.9999999	Round to 8 decimals.	
	Sub County Rate	Rate					
	If Rate Method Code = Additive, "A":			М	9.9999		Edit with ADM Sub County Rate, "A01050".
	Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Sub County Rate	ADM			None	See Section 21 for Written Agreement Sub County Rate information.
Historical Prior Capping Base Rate	If Rate Method Code = Multiplicative, "M":						Edit with ADMAILING Inc. December Counting
	Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise:						
	(Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Historical Basic Unit Base Rate	9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate)	Historical Basic Unit Base Rate	Internal		999999.99999999	Round to 8 decimals.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0021 Cotton 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See P14 Coverage Level Percent 34 9.9999 None When Unit Structure Code is equal to Optional Unit, "OU", Section 16 for Option Code "TA" (Trend "UA", "UD", or Basic Unit, "BU": Adjustment). [beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Round each Beta 5 Factor * Approved Yield / Capping Reference Yield + intermittent Beta * Beta 6 Factor * (Approved Yield / Capping Reference Historical Revenue Protection calculation to 8 Yield)^2 + Internal 9999999999999999 Base Premium Rate decimals as it has Beta 7 Factor * Price Volatility Factor + been done Beta 8 Factor * Price Volatility Factor^2 + historically. Historical Revenue Beta 9 Factor * Historical Basic Unit Base Rate * Coverage **Protection Base Premium** 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 + Edit with ADM Historical Revenue Capping, Beta 13 Factor * Coverage Level Percent * Price Volatility Beta O Factor - Beta 14 Factor ADM \$99,99999999 None "A01110". Factor + 9.99 Edit with ADM Price, "A00810". Price Volatility Factor ADM None Beta 14 Factor * (Approved Yield / Capping Reference Edit with ADM Coverage Level Differential, Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1 "A01040". Unit Residual Factor ADM 999,999 None See Section 18 for Option Code "TA" (Trend Adjustment). When Unit Structure Code is equal to Enterprise Unit, Edit with ADM Coverage Level Differential, "EU": "A01040". Enterprise Unit Residual Factor ADM 999.999 None See Section 18 for Option Code "TA" (Trend Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Adjustment). Factor'

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved

Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0021 Cotton 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Coverage Level Percent P14 34 9.9999 None When Unit Structure Code is equal to Optional Unit, "OU", Section 16 for Option Code "TA" (Trend "UA", "UD", or Basic Unit, "BU": Adjustment). [beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Round each Beta 5 Factor * Approved Yield / Capping Reference Yield + intermittent Beta * Beta 6 Factor * (Approved Yield / Capping Reference Historical Revenue Protection calculation to 8 Yield)^2 + with Harvest Price Exclusion 999999999999999 Internal decimals as it has Beta 7 Factor * Price Volatility Factor + Base Premium Rate been done Beta 8 Factor * Price Volatility Factor^2 + Historical Revenue historically. Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Protection with Harvest Level Percent + Price Exclusion Base Beta 10 Factor * Historical Basic Unit Base Rate * Approved Premium Rate Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Edit with ADM Historical Revenue Capping, \$99.99999999 Beta O Factor - Beta 14 Factor ADM None "A01110". Beta 14 Factor * (Approved Yield / Capping Reference Price Volatility Factor ADM 9.99 None Edit with ADM Price, "A00810". Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1 Edit with ADM Coverage Level Differential, "A01040". Unit Residual Factor ADM 999.999 None See Section 18 for Option Code "TA" (Trend Adjustment) When Unit Structure Code is equal to Enterprise Unit, Edit with ADM Coverage Level Differential, "EU": "A01040". ADM 999.999 Enterprise Unit Residual Factor None See Section 18 for Option Code "TA" (Trend Replace 'Unit Residual Factor' with 'Enterprise Unit Residual Adjustment). Factor'

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protection	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
Capped Revenue Protection Add on Rate	MIN(Base Premium Rate + Preliminary Revenue Protection = Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate	Capped Revenue Protection Add on Rate	Internal		9999999999999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
		Base Premium Rate	P11	94	999999.9999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".
Price Exclusion Add on	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical = Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping Year)) -	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		9999999999999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
Rate	Base Premium Rate	Base Premium Rate	P11	94	999999.9999999	None	
	base i remail nate	Commodity Year	P14	10	ССҮҮ	None	
		Capping Year	ADM		ССҮҮ	None	Edit with ADM Historical Revenue Capping, "A01110".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0091 Barley 0021 Cotton **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules The Whole Farm Unit Discount is only applicable to the Revenue Protection and **Revenue Protection with Harvest Price Exclusion Insurance Plans, unless the Special Provisions allow Whole Farm Units for other** Insurance Plans. Whole Farm Units will now mandate that Section 7: Whole Farm Unit Base Premium Rate 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 Round to 4 decimals. Internal 99999999999999 Lookup Rate = Revenue Lookup Rate * Revenue Lookup Adjustment Factor Revenue Lookup Rate Internal 999999999.9999 Round to 4 decimals. From Section 2. Revenue Lookup Adjustment Internal 9.9999999 None From Section 3. Edit with ADM Combo Revenue Factor, "A01030". Mean Quantity commodity ADM 999.99999999 None Search the Combo Revenue Factor, "A01030" Mean Quantity commodityj = Base Rate commodityj Mean Quantity commodityj WHERE Lookup Rate commodityj = for the Mean Quantity, When the Lookup Rate = Base Rate Lookup Rate commodityj Internal 9.9999 None Edit with ADM Combo Revenue Factor, Base Rate commodityj ADM 9.9999 None "A01030".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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			0051 Grain Sorghum 0078 Sunflower 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>
Standard Deviation Quantity _{commodityj}	$= \frac{\text{Standard Deviation Quantity}_{\text{commodity}_{j}} \text{ WHERE Lookup Rate}}{\text{commodity}_{j}} = \text{Base Rate}_{\text{commodity}_{j}}$	Standard Deviation Quantity commodityj	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Lookup Rate = Base Rate
		Lookup Rate _{commodityj}	Internal		9.9999	None	
		Base Rate commodityj	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
	= Approved Yield _{commodityj} * Mean Quantity _{commodityj} / 100	Adjusted Mean Quantity	Internal		999999.99999999	Round to 8 decimals.	
Adjusted Mean Quantity commodityj		Approved Yield _{commodityj}	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
	= Approved Yield _{commodityj} * = Standard Deviation Quantity _{commodityj} / 100	Adjusted Standard Deviation Quantity _{commodityj}	Internal		99999999999999999999	Round to 8 decimals.	
Adjusted Standard Deviation Quantity commodityj		Approved Yield _{commodityj}	P11	46	99999999.99	None	For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors)
La Vaniana a	let/Drive Veletility Feature (A2 - 4)	Log Variancecommodityj (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
LnVariance _{commodityj}	= In((Price Volatility Factor _{commodityj})^2 + 1)	Price Volatility Factor _{commodityj}	ADM		9.99	None	Edit with ADM Price, "A00810".
		log Mean _{commodityj} (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
LnMean _{commodityj}	= In(Projected Price or Contract Price _{commodityj}) - = LnVariance _{commodityj} / 2	Projected Price or Contract Price _{commodityj}	ADM		99999.9999		Edit with ADM Price, "A00810". Contract Price as addressed in Section 1.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0081 Soybeans 0043 Popcorn Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the Yield Draw Quantity = Yield Draw Quantity_{commodity} applicable draws. There should be 500 Draws **Yield Draw Quantity** ADM S99.999999999 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". 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 ADM Price Draw Quantity S99.99999999 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".

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion	
Commodity Code	0015 Canola	0021 Cotton 0041 Corn 0043 Popcorn			0051 Grain Sorghum 0078 Sunflower 0081 Soybeans	0091 Barley		
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	Field Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>	
		Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		999999999999999999999999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.	
		Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) this will be Effective Coverage Level Percent. See Section 16 for Option Code "TA" (Trend Adjustment).	
	Acres _{commodityj} * covlvl _{commodityj} * Round(MAX(ProjPrice _{commodityj} , Round(MIN(2 * ProjPrice _{commodityj} , Round(e ^(Pricecommodityj) * Round(vLnVarcommodityj,12) + LnMeancommodityj,12)),12)),12) - all Commodities \[\sum_{\text{Round}} \text{Round}(MAX(0,Round(Yield_{commodityj}) * j= AdjStdDev_{commodityj} + AdjMean_{commodityj,12})),12) * Round(MIN(2 * ProjPrice_{commodityj}, Round(e ^{(Pricecommodityj) * Round(vLnVarcommodityj,12) + LnMeancommodityj),12)),12) * Round(Acres_{commodityj,12})), 12)}	Approved Yield _{commodityj} (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be the greater of the Trended yield and the adjusted yield (the approved yield that would have be if TA wasn't selected without the effects to or floors)	
		Reported Acreage _{commodityj} (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acrereport line in the Whole Farm Unit.	
		Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price for each Commodity/Acreage report line in the Whole Farm Unit.	
		Price Draw Quanity _{commodityj} i (Price)	ADM		\$99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.	
		Log Variance _{commodityj} (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.	
		log Mean _{commodityj} (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage repline in the Whole Farm Unit.	
		Yield Draw Quantity _{commodityj} i (Yield)	ADM		\$99.99999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whol Farm Unit.	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protecti	ion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0091 Barley		
	Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	0081 Soybeans Field Format	<u>Field</u> Rounding	Rules
		Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev)	Internal		999999999999999999999999999999999999999	None	Adjusted Standard Deviation Quantity for ea Commodity/Acreage report line in the Whol Farm Unit.
		Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.99999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whol Farm Unit.
		Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		999999999999999999999	Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.
		Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) the will be Effective Coverage Level Percent. Se Section 16 for Option Code "TA" (Trend Adjustment).
	SRound(MAX (0, ∑covIvI _{commodity}) * i=1	Approved Yield _{commodityj} (AY)	P11	46	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit. For APH Trend, the Approved Yield will be to greater of the Trended yield and the adjusted yield (the approved yield that would have be if TA wasn't selected without the effects to or floors)
Simulated Revenue Protection Harvest Price = Excluded Losses Whole Farm		Reported Acreage _{commodityj} (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of al Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acre report line in the Whole Farm Unit.
		Projected Price or Contract Price _{commodityj} (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as address in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
		Yield Draw Quantity _{commodityj} i (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Who Farm Unit.
/1/2015		Adjusted Standard Deviation Quantity _{commodityj} (AdjStnDev) Page 30	Internal		999999999999999999999999999999999999999	None	Adjusted Standard Deviation Quantity for e- Commodity/Acreage report line in the Who Farm Unit.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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			0051 Grain Sorghum 0078 Sunflower 0081 Soybeans		0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	Rules
		Adjusted Mean Quantity _{commodityj} (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whol Farm Unit.
		Price Draw Quanity _{commodityj} i (Price)	ADM		\$99.99999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Who Farm Unit.
		Log Variance _{commodityj} (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
		log Mean _{commodityj} (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage rep line in the Whole Farm Unit.
	<u>SimRPLossesWF</u> 500	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) t will be Effective Coverage Level Percent. Se Section 16 for Option Code "TA" (Trend Adjustment).
Revenue Protection Whole Farm Rate		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 addres in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.
Revenue Protection with Harvest Price Exclusion = Whole Farm Rate	$\frac{SimRPhpeLossesWF}{500}$ $= \frac{all commodities}{\sum (covIvI_{commodityj} * AY_{commodityj} * ProjPrice_{commodityj} * Jesus FrojPrice_{commodityj} * Jesus $	Coverage Level Percent _{commodityj} (covlvl)	P14	34	9.9999	None	For Option Code "TA" (Trend Adjustment) the will be Effective Coverage Level Percent. Se Section 16 for Option Code "TA" (Trend Adjustment).
		Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		99999999999999999	Round to 8 decimals.	
	Acres _{commodityj})	Projected Price or Contract Price _{commodityj} (ProjPrice) Page 31	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price or Contract Price (as address in Section 1) for each Commodity/Acreage report line in the Whole Farm Unit.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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			0051 Grain Sorghum 0078 Sunflower 0081 Soybeans		0091 Barley		
	Calculations	Field Name	Record Number	Field	Field Format	<u>Field</u> <u>Rounding</u>	<u>Rules</u>		
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 "03":	equals Revenue Protection with Harvest Price Exclusion,								
Whole Farm Base Premium Rate	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		999999999999999999999999999999999999999	None			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Record Code: P11			Release Date: 10/6/2015						
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	0041 Corn			0051 Grain Sorghum 0078 Sunflower 0081 Soybeans		0091 Barley		
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>		
Section 8: Premium Rate							The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.		
When Unit Structure Code e Premium Rate =	MIN(.999, Round(Whole Farm Base Premium Rate * Sum ((Reported Acreage * Multiplicative Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting) + Sum ((Reported Acreage * Additive Optional Rate Adjustment Factor) / Sum(Total Reported Acreage) for Whole Farm including Prevented Planting), 8))	Premium Rate	Internal		999999999.9999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000. For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit.		
	J	Total Reported Acreage	Internal		99999999.99	None	Total Reported Acreage for the Whole Farm including Prevented Planting.		
When Unit Structure Code E Premium Rate =	MIN(.999, Base Premium Rate * Unit Structure Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		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 Protectio Add On Rate when Insurance Plan Code equals 02 or Capped Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03. If Section 6 is not applicable, Capped Revenue Add On Factor will equal Preliminary Revenue Protection Add On Rate when Insurance Plan Code equals 02 or Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate when Insurance Plan Code equals 03.		

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> Calculations Name Number Number **Format** Rounding Rules Section 9: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole 999999999 Preliminary Total Premium Internal number. Experience Factor is only applicable for **Experience Factor** P11 51 9.999 None Insurance Plan Code Yield Protection, "01". Premium Liability Amount * Premium Rate * Experience Preliminary Total = Factor * Premium Surcharge Percent * Total Premium Use when the Approved Yield Had a Cup or Premium Premium Surcharge Percent Internal Multiplicative Optional Rate Adjustment Factor Surcharge applied. If Option Rate with Rate Method Code equal Total Premium Multiplicative "T". Edit with ADM Option Rate, "A01060". Optional Rate Adjustment ADM 9.9999 None Currently this will be used for Short Rate Factor Option. Round to whole **Total Premium Amount** P11 92 999999999 number. Preliminary Total Premium * Multiple Commodity Total Premium Amount = Adjustment Factor Multiple Commodity Edit with ICE Multiple Cropping, "D00063". ICE 9999.999 None Adjustment Factor Used when there is a first Commodity Loss. Round to whole **Subsidy Amount** P11 90 999999999 number. Subsidy Amount = Total Premium Amount * Subsidy Percent Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium Amount = Total Premium Amount - Subsidy Amount Round to whole **Producer Premium Amount** P11 93 999999999 number.

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Record Name: Acreage

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Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0081 Soybeans 0018 Rice 0043 Popcorn Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules 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 1) The acreage records for the MA or MB Malting Barley Options MA & 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. **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.

Record Name: Acreage

Reinsurance Year: 2012 Version: Approved

Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record Field **Calculations** Name Number Number **Format** Rounding Rules **Section 10: Liability Calculation** Approved Yield calculated in accordance with the Basic According to the Malting Barley Price and **Provisions** Quality Endorsement, the Approved Yield can be based on either the procedures established Approved Yield = OR Approved Yield P11 46 99999999.99 in the Basic Provisions, or by averaging the yields required to meet the qualifications for Σ(Number of Bushels / Reported Acreage) / Σ number of Option A. Premium Guarantee Per Acre Common Crop Insurance Policy definition 999999999.99 Internal Round to 1 decimals. Premium Guarantee Per _ = Approved Yield * Coverage Level Percent Amount 'production guarantee (per acre)'. Acre Amount Approved Yield P11 46 9999999.99 None Coverage Level Percent P14 34 9.9999 None Price Election Amount will be set equal to the Additional Value Price. The Additional Value price is the difference between the contract price and regular Barley's Projected Price or the additional value price provided in the ADM if the contract price is not used. 1) The Contract Price: a) The sale price per bushel established in the contract or price agreement less the projected price for Barley. b) The amount per bushel (not including discounts or incentives) above the feed barley price that is determined at a later date, provided the method of determining the price is specified in the contract or price agreement. c) Price Election Amount = Additional Value Price Price Election Amount Internal 9999.9999 None If the contract or price agreement has a variable price option, the price OR the method of determining a price that will be treated as the sale price. 2) The additional Value price indicated in the actuarial documents: a) if there is no malting barley contract. b) The contract or price agreement was not provided by the acreage reporting date. 3) The additional Value price: a) For Option A WILL NOT EXCEED \$1.25. b) For Option B WILL

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0051 Grain Sorghum 0021 Cotton 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules Reported Acreage (Record MIN(Total Reported Acreage, Malting Barley Contract 1 1) Bushels / Approved Yield) There may need to be multiple record is there Reported Acreage (Record _ MIN(Total Reported Acreage - Reported Acreage for Record are multiple contracts and/or there are more 2) 1, Malting Barley Contract 2 Bushels / Approved Yield) acres insured to yield more bushels than the contract(s) call for. Acreage in excess of contracted acreage will be Reported Acreage Internal None MIN(Total Reported Acreage insured at the additional value price on the actuarial documents. Reported Acreage (Record X) = $\sum_{i=1}^{n}$ Malting Barley Contract I, malting Barley Con If there is not enough reported acres to support malting Barley Contract X) all of the contracts, Insurance will be limited to what the total reported acreage will support. Determine the Premium Guarantee Per Acre Amount and the Guarantee Per Acre Amount Premium Guarantee Per
Acre Amount = Approved Yield * Coverage Level Percent Premium Guarantee Per Acre Internal 99999999.99 Round to 1 decimals. for each record. Amount Common Crop Insurance Policy definition 'production guarantee (per acre)'. If Late Planting applies: Prevented Planting does not apply to Malting Guarantee Per Acre = Premium Guarantee Per Acre Amount * Guarantee Amount * Adjustment Factor Guarantee Per Acre Amount Internal 99999999.99 Round to 1 decimals. Barley Option A or Malting Barley Option B records. Premium Total Guarantee Premium Guarantee Per Acre Amount * Price Election Premium Total Guarantee Internal 9999999.99 Round to 2 decimals. Amount * Reported Acreage Amount Guarantee Per Acre Amount * Price Election Amount * Total Guarantee Amount = Total Guarantee Amount P11 100 9999999.99 Round to 2 decimals. Reported Acreage Round to whole Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent Premium Liability Amount Internal 999999999 number. Round to whole Liability Amount = Total Guarantee Amount * Insured Share Percent Liability Amount P11 91 999999999 number.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0081 Soybeans 0018 Rice 0043 Popcorn Field Record Field Field <u>Field</u> **Calculations** Rounding Name Number Number **Format** Rules 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 2 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 MIN(.999, Base Premium Rate * Unit Structure Discount applied later from section 3 of these procedures Premium Rate = Factor * Multiplicative Optional Rate Adjustment Factor+ as if it was a normal Yield Protection Plan of Additive Optional Rate Factor) Insurance 4) Find the applicable Malting Barley Option Factor to be applied later from section 4. This will be the only option factor applied to a Malting Barley record. 5) Sections 5, 6, 7 are not applicable for MA/MB records. Multiplicative Optional Rate Internal 999999.9999 Adjustment Factor Additive Optional Rate Internal 999999.9999 Adjustment Factor

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Record Name: Acreage
Record Code: P11

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	Record Code	e: P11			Release Date	e: 10/6/2015	
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	tion with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn		(0051 Grain Sorghum 0078 Sunflower 0081 Soybeans		0091 Barley
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Section 12: Total Premium	Amount, Subsidy Amount, and Producer Premium Amount						
		Preliminary Total Premium	Internal		999999999	Round to whole number.	
Preliminary Total Premium	= Premium Liability Amount * Premium Rate * Experience Factor * Premium Rate Surcharge Percent Factor	Experience Factor	P11	51	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
		Premium Rate Surcharge Percent					
Total Premium Amount	Preliminary Total Premium * Multiple Commodity	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 Premium Amount * Subsidy Percent	Subsidy Amount	P11	90	999999999	Round to whole number.	
,	·	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	93	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. Uni Structure Code 'WU' does not apply to Cottonseed.
ection 13: Liability Calcul	ation						
Modified Viold	= Approved Yield * Option Conversion Factor	Modified Yield	Internal		99999999.99	Round to whole Number.	
iviouilleu fielu		Approved Yield	P11	46	99999999.99	None	From Cotton P11 record.
		Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Premium Guarantee Per Acre Amount	= Modified Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		99999999.99	Round to whole number.	
		Coverage Level Percent	P14	34	9.9999	None	

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

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			0051 Grain Sorghum 0078 Sunflower 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>
Guarantee Per Acre	When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P":	Guarantee Per Acre Amount	Internal		999999999999	Round to whole number.	
Amount	= Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".
Price Election Amount = Projected Price * Price Election Percent		Price Election Amount	Internal		9999.9999	Round to nearest whole cent [\$9.99].	Cottonseed will equal the Projected Price from ADM regardless of Price Election Percent for Cotton Lint.
		Projected Price	ADM		99999.9999		
		Price Election Percent	ICE		9.9999	None	Will always be 1.000 for Cottonseed.
Premium Total Guarantee	Premium Guarantee Per Acre Amount * Price Election	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
Amount		Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	99999999.99	None	From Cotton P11 record.
Total Guarantee Amount	Guarantee Per Acre Amount * Price Election Amount *	Total Guarantee Amount	P11	100	9999999.99	Round to 2 decimals.	
Total Guarantee Amount	Reported Acreage	Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	999999.99	None	From Cotton P11 record.
Premium Liability Amount	= Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		999999999	Round to whole number.	
		Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.
Liability Amount	= Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	91	999999999	Round to whole number.	_
		Insured Share Percent	P11	47	9.9999	None	From Cotton P11 record.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field <u>Field</u> Record Field **Calculations** Name Number Number **Format** Rounding Rules 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 2 of these procedures using the rating components for regular Cotton offer. Premium Rate Internal 999999999999999 Round to 8 decimals. 3) Find the Unit Structure Discount Factor to be MIN(.999, Base Premium Rate * Unit Structure Discount applied later from section 3 of these procedures Premium Rate = Factor * Multiplicative Optional Rate Adjustment Factor+ for regular Cotton offer. 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. Multiplicative Optional Rate 999999.9999 Internal Adjustment Factor Additive Optional Rate Internal 999999.9999 Adjustment Factor Section 15: Total Premium Amount, Subsidy Amount, and Producer Premium Amount Round to whole 999999999 Preliminary Total Premium Internal number. Preliminary Total _ Premium Liability Amount * Premium Rate * Experience Experience Factor is only applicable for **Experience Factor** P11 51 9.999 None Premium Factor * Premium Rate Surcharge Percent Insurance Plan Code Yield Protection, "01". Premium Rate Surcharge Percent Round to whole P11 92 999999999 **Total Premium Amount** Preliminary Total Premium * Multiple Commodity Total Premium Amount = Adjustment Factor number. Multiple Commodity ICE 9999.999 None Edit with ICE Multiple Cropping, "D00063". Adjustment Factor Round to whole P11 90 999999999 Subsidy Amount number. Subsidy Amount = Total Premium Amount * Subsidy Percent Subsidy Percent ADM 9.999 None Edit with ADM Subsidy Percent, "A00070". Producer Premium Amount = Total Premium Amount - Subsidy Amount Round to whole Producer Premium Amount P11 93 999999999 number.

Record Name: Acreage

Reinsurance Year: 2012 Version: Approved

Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record Field **Calculations** Name Number Number **Format** Rounding Rules Trend Adjustment Option (TA) ONLY available in APH Yield Trend (Trend Adjustment Option 'TA') select counties for Corn and Soybeans for 2012. See "white paper" for examples. Section 16: Effective Coverage Level Calculation Rounded to 2 decimal Effective Coverage Level 9.99 Internal Percent places. Coverage Level Percent P14 34 9.9999 None For APH Trend, the Approved Yield will be the Effective Coverage Level = Coverage Level Percent * Approved Yield/Adjusted Yield greater of the Trended yield and the adjusted Percent Approved Yield P11 46 9999999.99 None yield (the approved yield that would have been if TA wasn't selected without the effects to cups or floors) Adjusted Yield P15 44 9999999.99 None When Trend Adjustment Option (TA) was Section 17: Rate Differential Factor chosen and yield reflects a trend. Round to 9 decimal Rate Differential Factor 9.99999999 Internal places 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 9.99999999 Base Rate Differential Factor ADM None Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Rate Differential existing ADM Coverage Levels then this will be ADM 9.999999999 None Factor 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.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field <u>Field</u> **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Round(Base Rate Differential Factor + (Upper Bound Rate Based on the 'lower bound' Coverage Level. Differential Factor - Lower Bound Rate Differential Factor) * Edit with ADM Coverage Level Differential, Rate Differential Factor = (Effective Coverage Level Percent - Floored Effective "A01040". Coverage Level Percent) * 20, 9) If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be Lower Bound Rate Differential based on the Effective Coverage Level Percent. ADM 9.99999999 None Factor 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 Internal 9.99 None Percent 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 Floored Effective Coverage this will be the lower ADM Coverage Level. Internal 9.99 None **Level Percent** 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0081 Soybeans 0043 Popcorn Field Record Field Field Field **Calculations** Rounding Name Number Number **Format** Rules Prior Year Rate Differential Round to 9 decimal 9.99999999 Internal Factor places. 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 Base Prior Year Rate Differential ADM 9.99999999 None Effective Coverage Level. Edit with ADM Factor Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Rate existing ADM Coverage Levels then this will be ADM 9.99999999 None Differential Factor 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code01 Yield Protection02 Revenue Protection03 Revenue Protection with Harvest Price ExclusionCommodity Code0011 Wheat0021 Cotton0051 Grain Sorghum
0078 Sunflower0091 BarleyCommodity Code0015 Canola
0018 Rice0041 Corn
0043 Popcorn0078 Sunflower
0081 SoybeansField
NameRecord
NumberField
NumberField
NumberField
FormatField
RoundingRules

	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
Prior Year Rate	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		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules The lookup/interpoloation/extrapolation procedure for 'Unit Residual Factor and Prior Section 18: Unit Residual Factor Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend. When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU", use the following calculations for Unit Residual Factor and Prior Year Unit Residual Factor: The cap value for the Residual Factors is the Round to 3 decimal 999.999 MAX(Residual Factor) from all coverage levels Unit Residual Factor Internal places. within the chosen unit structure 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. Base Unit Residual Factor ADM 999.999 None Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level 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 Unit Residual between existing ADM Coverage Levels then ADM 999.999 None Factor 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Unit Residual Factor + (Upper Bound Unit If the Effective Coverage Level equals an Residual Factor - Lower Bound Unit Residual Factor) * Unit Residual Factor = existing ADM Coverage Level then this will be (Effective Coverage Level Percent - Floored Effective based on the Effective Coverage Level. Coverage Level Percent) * 20, 3) If the Effective Coverage Level falls between Lower Bound Unit Residual existing ADM Coverage Levels then this will be ADM 999.999 None Factor 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 9.99 Internal None Percent 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 Floored Effective Coverage this will be the lower ADM Coverage Level. Internal 9.99 None Level Percent 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field <u>Field</u> **Calculations** Rounding <u>Name</u> Number Number **Format** Rules The cap value for the Residual Factors is the Round to 3 decimal Prior Year Unit Residual Factor Internal 999.999 MAX(Residual Factor) from all coverage levels places. within the chosen unit structure Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) Base Prior Year Unit Residual available Coverage Level less than or equal to ADM 999.999 None Factor Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Unit existing ADM Coverage Levels then this will be ADM 999.999 None **Residual Factor** 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Round(Base Prior Year Unit Residual Factor + (Upper Bound Edit with ADM Coverage Level Differential, Prior Year Unit Residual Prior Year Unit Residual Factor - Lower Bound Prior Year "A01040". Factor Unit Residual Factor) * (Effective Coverage Level Percent -If the Effective Coverage Level equals an Floored Effective Coverage Level Percent) * 20, 3) existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year Unit existing ADM Coverage Levels then this will be ADM 999.999 None **Residual Factor** 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 9.99 None Internal 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 Coverage Internal 9.99 None the lower ADM Coverage Level. **Level Percent** 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 Code: P11

Reinsurance Year: 2012

Version: Approved

Release Date: 10/6/2015

Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calculations for Enterprise Unit Residual Factor and Prior Year Enterprise Unit Residual Factor: The cap value for the Residual Factors is the Round to 3 decimal 999.999 MAX(Residual Factor) from all coverage levels Enterprise Unit Residual Factor Internal places. within the chosen unit structure Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) Base Enterprise Unit Residual ADM 999.999 None available Coverage Level less than or equal to Factor Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level 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 Enterprise Unit ADM 999.999 None between existing ADM Coverage Levels then Residual Factor this will be based on the higher ADM Coverage 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0081 Soybeans 0043 Popcorn Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Enterprise Unit Residual Factor + (Upper Bound If the Effective Coverage Level equals an Enterprise Unit Residual _ Enterprise Unit Residual Factor - Lower Bound Enterprise existing ADM Coverage Level then this will be Factor Unit Residual Factor) * (Effective Coverage Level Percent based on the Effective Coverage Level. Floored Effective Coverage Level Percent) * 20, 3) If the Effective Coverage Level falls between Lower Bound Enterprise Unit existing ADM Coverage Levels then this will be ADM 999.999 None Residual Factor 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 Internal 9.99 None Percent

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0081 Soybeans 0018 Rice 0043 Popcorn Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules 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 Floored Effective Coverage this will be the lower ADM Coverage Level. Internal 9.99 None Level Percent If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level. The cap value for the Residual Factors is the Prior Year Enterprise Unit Round to 3 decimal Internal 999.999 MAX(Residual Factor) from all coverage levels **Residual Factor** places. within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Base Enterprise Prior Year Unit Coverage Level or; 2) available Coverage Level ADM 999.999 None Residual Factor 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name 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 **Upper Bound Prior Year** ADM 999.999 None existing ADM Coverage Levels then this will be Enterprise Unit Residual Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Round(Base Enterprise Prior Year Unit Residual Factor + Based on the 'lower bound' Coverage Level. (Upper Bound Prior Year Enterprise Unit Residual Factor -Edit with ADM Coverage Level Differential, Prior Year Enterprise Unit = Lower Bound Prior Year Enterprise Unit Residual Factor) * "A01040". Residual Factor (Effective Coverage Level Percent - Floored Effective If the Effective Coverage Level equals an Coverage Level Percent) * 20, 3) existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year existing ADM Coverage Levels then this will be ADM 999,999 None **Enterprise Unit Residual Factor** 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 Internal 9.99 None Percent

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Record Name: Acreage

Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley 0078 Sunflower **Commodity Code** 0015 Canola 0041 Corn 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field Field **Calculations** Number Number **Format** Rounding Name Rules 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 Coverage the lower ADM Coverage Level. Internal None 9.99 Level Percent 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name 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 Round to 3 decimal Whole Farm Unit Residual Internal 999.999 MAX(Residual Factor) from all coverage levels 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 Residual ADM 999.999 None Effective Coverage Level. Edit with ADM 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 Farm Unit between existing ADM Coverage Levels then ADM 999.999 None **Residual Factor** 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protectio	n with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
		<u>Field</u>	Record	Field	<u>Field</u>	<u>Field</u>	
	Calculations	<u>Name</u>	<u>Number</u>	Number	<u>Format</u>	Rounding	<u>Rules</u>
Whole Farm Unit Residual Factor	Round(Base Whole Farm Unit Residual Factor + (Upper Bound Whole Farm Unit Residual Factor - Lower Bound = Whole Farm Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Lower Bound Whole Farm Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		9.99	None	
		Floored Effective Coverage Level Percent	Internal		9.99	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
		Prior Year Whole Farm Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record Field **Calculations** Name Number Number **Format** Rounding Rules 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 Base Whole Farm Base Prior ADM 999.999 None Coverage Level less than or equal to Effective Year Unit Residual Factor Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Prior Year Whole 999.999 existing ADM Coverage Levels then this will be ADM None Farm Unit Residual Factor based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level. Based on the 'lower bound' Coverage Level. Round(Base Whole Farm Prior Year Unit Residual Factor + Edit with ADM Coverage Level Differential, (Upper Bound Prior Year Whole Farm Unit Residual Factor -Prior Year Whole Farm = Lower Bound Prior Year Whole Farm Unit Residual Factor) * "A01040". **Unit Residual Factor** (Effective Coverage Level Percent - Floored Effective If the Effective Coverage Level equals an Coverage Level Percent) * 20, 3) existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Prior Year Whole existing ADM Coverage Levels then this will be ADM 999.999 None Farm Unit Residual Factor 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.

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Record Name: Acreage

Reinsurance Year: 2012

Version: Approved

Record Code: P11 Release Date: 10/6/2015 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley 0078 Sunflower **Commodity Code** 0015 Canola 0041 Corn 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field Field **Calculations** Number Number Rounding Rules Name **Format** Effective Coverage Level 9.99 Internal None 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 Coverage Internal 9.99 None the lower ADM Coverage Level. Level Percent 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: 2012 Version: Approved

Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules The lookup/interpoloation/extrapolation procedure for 'Optional Unit Discount Factor, Section 19: Unit Discount Calculation Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend. When Unit Structure Code is equal to Optional Unit, "OU", "UA", or "UD", use the following calculation for Unit Structure Discount Factor: Round to 4 8 decimal Unit Structure Discount Factor Internal 9.99999999 Capped at 1.0 places. Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Base Coverage Level Percent Coverage Level or; 2) available Coverage Level ADM 9.99999999 None **Optional Unit Discount Factor** less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Upper Bound Coverage Level existing ADM Coverage Levels then this will be Percent Optional Unit Discount ADM 9.99999999 None based on the higher ADM Coverage Level. 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. Pound/Pace Coverage Level Percent Ontional Unit Discount

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Nound base coverage Level Percent Optional Onit Discount Based on the 'lower bound' Coverage Level. Factor + (Upper Bound Coverage Level Percent Optional Unit Structure Discount = Unit Discount Factor - Lower Bound Coverage Level Percent Edit with ADM Coverage Level Differential, Factor "A01040". Optional Unit Discount Factor) * (Effective Coverage Level If the Effective Coverage Level equals an Percent - Floored Effective Coverage Level Percent) * 20, 4) existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Coverage Level existing ADM Coverage Levels then this will be Percent Optional Unit Discount ADM None based on the lower ADM Coverage Level. 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 Level Internal 9.99 None 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 Floored Effective Coverage existing ADM Coverage Levels then this will be Internal 9.99 None Level Percent 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 Code: P11

Reinsurance Year: 2012

Version: Approved

Release Date: 10/6/2015 Record Code: P11 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field <u>Field</u> **Calculations** Rounding Name Number Number **Format** Rules When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor: Round to 4 decimal Unit Structure Discount Factor Internal 9.99999999 Capped at 1.0 places. Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Base Coverage Level Percent ADM 9.99999999 None Level or; 2) available Coverage Level less than or Basic Unit Discount Factor equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. Upper Bound Coverage Level If the Effective Coverage Level falls between Percent Basic Unit Discount ADM 9.99999999 None existing ADM Coverage Levels then this will be Factor 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: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0043 Popcorn 0081 Soybeans Field Field Field Record <u>Field</u> **Calculations** Name Number Number **Format** Rounding Rules Based on the 'lower bound' Coverage Level. Round(Base Coverage Level Percent Basic Unit Discount Edit with ADM Coverage Level Differential, Factor + (Upper Bound Coverage Level Percent Basic Unit Unit Structure Discount "A01040". = Discount Factor - Lower Bound Coverage Level Percent Factor If the Effective Coverage Level equals an Basic Unit Discount Factor) * (Effective Coverage Level existing ADM Coverage Level then this will be Percent - Floored Effective Coverage Level Percent) * 20, 4) based on the Effective Coverage Level. If the Effective Coverage Level falls between Lower Bound Coverage Level existing ADM Coverage Levels then this will be Percent Basic Unit Discount ADM None based on the lower ADM Coverage Level. 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 Level 9.99 None Internal 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 Coverage Internal 9.99 None the lower ADM Coverage Level. Level Percent 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: 2012

Version: Approved

		Record Code: P11					
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion
	0011 Wheat	0021 Cotton			0051 Grain Sorghum		0091 Barley
Commodity Code	0015 Canola	0041 Corn			0078 Sunflower		
	0018 Rice	0043 Popcorn			0081 Soybeans		
	Calaulatiana	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	Bules
When Unit Structure Code	<u>Calculations</u> e is equal to Enterprise Unit, 'EU', use the following calculation	Name for Unit Structure Discount Factor	Number or:	Number	<u>Format</u>	Rounding	Rules
vviicii oiiit stractare coac	to sequal to Enterprise only, Eo, use the following calculation	Tor othe structure biscount racte	1			Round to 4 8 decim	al l
		Unit Structure Discount Factor	Internal		9.99999999	places.	Capped at 1.0
		Base Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
		Upper Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM		9.99999999	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.
	Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Lower Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

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Record Name: Acreage

Reinsurance Year: 2012

Version: Approved

Record Code: P11 Release Date: 10/6/2015 **Insurance Plan Code** 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley 0078 Sunflower **Commodity Code** 0015 Canola 0041 Corn 0018 Rice 0043 Popcorn 0081 Soybeans Field Record Field Field Field **Calculations** Number Number Rounding Rules Name **Format** Effective Coverage Level 9.99 Internal None 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 Coverage the lower ADM Coverage Level. Internal 9.99 None Level Percent 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: 2012

Version: Approved

	Record Code:								
Insurance Plan Code	01 Yield Protection	02 Revenue Protection				03 Revenue Protect	ion with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0043 Popcorn			0051 Grain Sorghum 0078 Sunflower 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>		
Written Agreement Rate I	nformation								
Section 20: Written Agree							The following information will be used only when an applicable county program does not exist in the county and written agreement (WA) specifies a Multiplicative Rate, Add-on Rate, or Designated Rate. This would include situations where a written agreement (WA) for a type or practice not contained in the Actuarial materials.		
When WA specifies a Mult	iplicative Rate:					_			
	= (Round(Reference Rate + Fixed Rate) * Written Agreement = Multiplicative Rate Adjustment,3) - Fixed Rate	Reference Rate	Internal		9.9999	None			
		Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
Reference Rate		Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None			
		Prior Year Reference Rate	Internal		9.9999	None			
	(Round(Reference Rate + Fixed Rate) * Written Agreement	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
Prior Year Reference Rate		Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
	Multiplicative Rate Adjustment,3) - Fixed Rate	Written Agreement Multiplicative Rate Adjustment	WA		9.9999	None			
When WA specifies a Add-	on Rate:								
		Fixed Rate	Internal		9.9999	None			
Fixed Rate	= Fixed Rate + Written Agreement Add-on Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Add-on Rate	WA		9.9999	None			
		Prior Year Fixed Rate	Internal		9.9999	None			
Prior Year Fixed Rate	= Fixed Rate + Written Agreement Add-on Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".		
		Written Agreement Add-on Rate	WA		9.9999	None			

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2012 Version: Approved Release Date: 10/6/2015

Insurance Plan Code 01 Yield Protection 02 Revenue Protection 03 Revenue Protection with Harvest Price Exclusion 0011 Wheat 0021 Cotton 0051 Grain Sorghum 0091 Barley **Commodity Code** 0015 Canola 0041 Corn 0078 Sunflower 0018 Rice 0081 Soybeans 0043 Popcorn Field Record Field Field Field **Calculations** Number Rounding Name Number **Format** Rules When WA specifies a Designed Rate: Reference Rate = zero (0) Reference Rate Internal 9.9999 None Fixed Rate None Internal 9.9999 Fixed Rate = Designated Rate **Designated Rate** WA 9.9999 None Prior Year Reference Rate = zero (0) Prior Year Reference Rate Internal 9.9999 None Prior Year Fixed Rate 9.9999 None Internal Prior Year Fixed Rate = Designated Rate Written Agreement Designated WA 9.9999 None Rate The following information will be used when Section 21: Written Agreement Sub County Rate Calculation written agreement (WA) modifies a Sub County Rate (High Risk or Map Rate). Replace Sub County Rate if Written Agreement Written Agreement Sub County Sub County Rate is lower. Set Sub County Rate Sub County Rate = Written Agreement Sub County Rate WA 9.9999 None Rate to zero if Written Agreement removes Sub County Rate.

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