Reinsurance Year: 2023 Version: Draft

Record Code: P11			Release Date: 8/18/2022						
Insurance Plan Code	41 Pecan Revenue								
Commodity Code	0020 Pecans								
<u>Calculations</u>	<u>Field</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
Second Year of Two-year Coverage Module and no changes	<u>Name</u>	Number	Number	romat	Rounding	Rules			
If Reference Commodity Year <> Commodity Year:									
Approved Yield (Revenue), Coverage Level Percent, Dollar Amount of Insurance, B	ase Premium Rate, and Premium	Rate will en	ıal what w	as determined for F	irst Year of Two-year Coverag	re Module			
	ase i reimain nace, and i reimain	nate will equ	iai wiiat w	us determined for t	ist real of two year coverag	ie module.			
First Year of Two-year Coverage Module or if there were changes to Second Year									
Section 1: Liability Calculation	I- 11	1			I=				
Coverage Type Code equals Additional, "A":	Dollar Amount of Insurance	P11	112	99999999.99	Round to whole number.	This will be the Approved Revenue reported in			
Dollar Amount of = Approved Yield (Revenue) * Coverage Level Percent Insurance	Approved Yield(Revenue)	P11	42	99999999.99	None	the Approved Yield field.			
Insurance	Coverage Level Percent	P14	34	9.9999	None				
Coverage Type Code equals Catastrophic, "C":	Dollar Amount of Insurance	P11	112	99999999.99	Round to whole number.				
	Dollar Amount of msurance	F11	112	33333333.33	Round to whole number.				
Dollar Amount of _ Approved Yield (Revenue) * Coverage Level Percent * Insurance Price Election Percent	Approved Yield(Revenue)	P11	42	99999999.99	None	This will be the Approved Revenue reported in the Approved Yield field.			
	Coverage Level Percent	P14	34	9.9999	None				
	Price Election Percent	P14	35	9.9999	None	When Coverage Type Code equals "C", then Price Election Percent (Protection Factor) equals 0.55.			
	Acre Guarantee Quantity	P11	113	99999999.99	Round to whole number.				
$\mbox{Acre Guarantee Quantity} = \frac{\mbox{Dollar Amount of Insurance * Guarantee Adjustment}}{\mbox{Factor}}$	Guarantee Adjustment Factor	P11	69	0.999	None	Guarantee Adjustment Type Code equals "F", First Year Thinning Factor. Edit with ADM Guarantee Adjustment ICE, "D00068".			
	Total Guarantee Amount	P11	110	99999999.99	Round to whole number.				
Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage	Reported Acreage	P11	48	9999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.			
Liability Amount = Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	101	999999999	Round to whole number.	Cup at \$1.			
	Insured Share Percent	P11	43	9.9999	None				
Section 2: Base Premium Rate Calculation									
Current Year Yield Ratio = Rate Yield (Revenue) / Reference Revenue	Current Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.			
	Rate Yield (Revenue)	P15	35	99999999.99	None	This will be the Rate Revenue reported in the Rate Yield field.			
	Reference Revenue	ADM		99999.99	None	Edit with ADM Base Rate, "A01010" Reference Amount.			

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	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Prior Year Yield Ratio = Rate Yield / Prior Year Reference Revenue		Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
		Rate Yield	P15	35	99999999.99	None	This will be the Rate Yield (Revenue).
		Prior Year Reference Revenue	ADM		99999.99	None	Edit with ADM Base Rate, "A01010" Prior Year Refernce Amount.
Current Year Rate	- Current Vear Vield Ratio ^ Evnonent Value	Current Year Rate Multiplier	Internal		9999.9999999	Round to 8 decimals.	
Current Year Rate = Current Year Yield Ratio ^ Exponent Value		Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".
Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value		Prior Year Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
		Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".
Current Year Base Rate =	When Rate Method Code equals Fixed Rate, "F": Sub County Rate	Current Year Base Rate	Internal		999999.9999999	Round to 8 decimals.	
	When Rate Method Code equals Additive, "A": (Sub County Rate + Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050".
	When Rate Method Code equals Multiplicative, "M": Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Otherwise: Current Year Rate Multiplier * Reference Rate + Fixed Rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 8/18/2022

Insurance Plan Code 41 Pecan Revenue

Commodity Code		0020 Pecans						
	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>	
Prior Year Base Rate =	When Rate Method Code equals Fixed Rate, "F": Sub County Rate	Prioir Year Base Rate	Internal		999999.9999999	Round to 8 decimals.		
	When Rate Method Code equals Additive, "A": Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050".	
	When Rate Method Code equals Multiplicative, "M": Sub County Rate * (Prior Year Rate Multiplier * Prior Year Refernce Rate + Prior Year Fixed Base)	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".	
	Otherwise: Prior Year Rate Multiplier * Prior Reference Rate + Prior Year Fixed Rate	Prior Year Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".	
			Internal		999999.99999999	Round to 8 decimals.		
		Rate Differential Factor	ADM		9.9999999	None	Edit with ADM Coverage Level Differential, "A01040". If Sub County Rate applies then associated Sub County Differentials will apply.	
Current Year Base Rate * Rate Differential Factor * Premium Rate Unit Residual Factor	Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". When Unit Structure Code equals "OU" or "BU", then Unit Residual Factor. When Unit Structure Code equals "EU", then Enterprise Unit Residual Factor.		
	Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Residual Factor * 1.2	Prior Year Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.		
Prior Year Base Premium Rate		Prior Year Rate Differential Factor	ADM		9.9999999	None	Edit with ADM Coverage Level Differential, "A01040". If Sub County Rate applies then associated Sub County Differentials will apply.	
		Prior Year Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". When Unit Structure Code equals "OU" or "BU", then Prior Year Unit Residual Factor. When Unit Structure Code equals "EU", then Prior Year Enterprise Unit Residual Factor.	

Record Code: P11

Reinsurance Year: 2023

Version: Draft

Release Date: 8/18/2022

Insurance Plan Code 41 Pecan Revenue Commodity Code 0020 Pecans Field Field Field Record Field Calculations Name <u>Number</u> Number **Format** Rounding Rules Base Premium Rate = | Premium Rate, or .999) MIN (Current Year Base Premium Rate, Prior Year Base Base Premium Rate P11 104 999999,99999999 Round to 8 decimals. Edit with ADM Base Rate, "A01010". Section 3: Optional Coverage Calculation Additive Optional Rate Internal 999999.9999 Round to 4 decimals. Adjustment Factor Option Rate will be the Sum of all Option Rate When Rate Method Code is Additive, "A": Additive Optional Rate Option Rate ADM 99999.9999 None with Rate Method Code equal to Additive, "A". Adjustment Factor Edit with ADM Option Rate, "A01060". ∑ Option Rate * Rate Differential Factor Edit with ADM Coverage Level Differential, "A01040". If Reference Commodity Year <> ADM Rate Differential Factor 9.99999999 None Commodity Year use Prior Year Rate Differential Factor. Multiplicative Optional Rate Internal 999999.9999 Round to 4 decimals. When Rate Method Code is Multiplicative, "M": Adjustment Factor Multiplicative Optional Rate Adjustment Factor > Option Rate1 * Option Rate2 * Option Rate3... Option Rate ADM 9.9999 None Edit with ADM Option Rate, "A01060". The Premium Rate for ALL Unit Structures should be capped at .999 in the event various Section 4: Premium Rate Calculation adjustments to the Base Premium Rate would cause it to exceed 1.0. 9999999999999999 Premium Rate Internal Round to 8 decimals. Premium Rate is capped at 0.99900000. Edit with ADM Unit Discount, "A01090". Base Premium Rate * Unit Structure Discount Factor * When Unit Structure Code equals "BU", then Premium Rate = Multiplicative Optional Rate Adjustment Factor + Unit Structure Discount Factor equals Basic Additive Optional Rate Adjustment Factor Unit Structure Discount Factor ADM 9.999 None Unit Discount Factor. When Unit Structure Code equals "EU", then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.

Record Code: P11

Reinsurance Year: 2023 Version: Draft Release Date: 8/18/2022

Insurance Plan Code 41 Pecan Revenue

Commodity Code 0020 Pecans

Field Record Field Field Field

Commodity Code	0020 Pecans						
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>	
Section 5: Total Premium, Subsidy, and Producer Premium Calculation							
Preliminary Total = Liability Amount * Premium Rate * Premium Premium Amount = Surcharge Percent	Preliminary Total Premium Amount	Internal		999999999	Round to whole number.		
	Premium Surcharge Percent	Internal		9.99	None	When Surcharge Applied Flag equals "Y", then Premium-Surcharge Percent must equal 1.05, otherwise must equal 1.00.	
Total Premium Amount = Preliminary Total Premium Amount * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	102	999999999	Round to whole number.		
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".	
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	100	999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher, see Section 6 for subsidy calculations.	
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	103	999999999	Round to whole number.		
Section 6: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), ar	d Conservation Compliance (CC) Su	ubsidy Calc	ulations				
Base Subsidy Amount = Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".	
BFR/VFR Subsidy Amount = Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount	Internal		999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0.	
CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Percent	P11	76	9.9999	None	If Applicable; else 0.	
	CC Reduction Subsidy Amount	P11	118	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.	
Subsidy Amount = Base Subsidy Amount + BFR/VFR Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P11	100	999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0.	
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	103	999999999	Round to whole number		