Exhibit Number: P11-9, Plan 90
Record Name: Acreage
Record Code: P11

		Code. FII				. 0/3/2021		
Insurance Plan Code		90 Actual Production History						
	0012 Blueberries	0053 Grapes			0107 Alfalfa Seed		0233 Dark Air Tobacco	
	0013 Onions	0054 Apples			0107 Allalia Seed 0114 Buckwheat		0234 Cigar Filler Tobacco	
	0013 Officials 0016 Oats	0055 Culti Wild Rice			0132 Cucumbers		0235 Cigar Bindr Tobacco	
	0017 Millet	0058 Cranberries			0147 Pumpkins		0236 Cigar Wrapper Tobacco	
	0019 Avocados	0059 Silage Sorghum			0156 Sweet Potatoes		0255 Banana	
	0022 Cotton Extra Long	0060 Figs			0158 Triticale		0256 Coffee	
	0023 Macadamia Nuts	0064 Green Peas			0201 Grapefruit		0257 Papaya	
	0028 Almonds	0067 Dry Peas			0202 Lemons		0309 Mandarins/Tangerines	
Commodity Code	0029 Walnuts	0069 Mustard			0203 Tangelos		0333 Camelina	
	0031 Flax	0072 Cabbage			0218 Fresh Apricots		0396 Sesame	
	0033 Forage Production	0074 Mint			0219 Processing April	cots	0470 Pistachios	
	0034 Peaches	0079 Clary Sage			0220 Fresh Nectarine	S	0501 Olives	
	0036 Prunes	0084 Potatoes			0221 Processing Cling	Peaches	1302 Tangors	
	0038 Sugar Cane	0086 Fresh Tomatoes			0222 Processing Free	stone	1218 Hemp	
	0039 Sugar Beets	0087 Tomatoes				Peaches	6000 Caneberries	
	0042 Sweet Corn	0089 Pears			0227 Oranges			
	0046 Processing Beans	0092 Fresh Plums			0229 Flue Cured Toba	ссо		
	0047 Dry Beans	0094 Rye			0230 Fire Cured Toba	ссо		
	0049 Safflower	0102 Grass Seed			0231 Burley Tobacco			
	0052 Table Grapes	0105 Fresh Market Beans			0232 Maryland Tobacco			
		<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>	
ection 1: Liability Calcul	ation							
,						When Unit of Measure equals		
						Pounds, "LBS", then Round to		
						whole Number.		
							Consentes Day Asset should be seemeded to	
		Guarantee Per Acre1	Internal		99999999.99	When Unit of Measure equals	Guarantee Per Acre1 should be rounded to whole pounds for Dry Beans, "0047" (all types)	
		Guarantee Per Acre1	internai		99999999.99	Tons, "Tons", then Round to 2	and Dry Peas, "0067" (all types).	
						decimals.	and Dry reas, 6007 (an types).	
Guarantee Per Acre1	1 = Approved Yield * Coverage Level Percent							
						Otherwise, Round to 1		
						decimal.		
		Approved Yield	P11	42	99999999.99	None		
							For APH Trend, Yield Cup, Quality Loss and Yiel	
		Coverage Level Percent	P14	34	9.9999	None	Exclusion the Coverage Level Percent in this	
							section is ALWAYS the chosen coverage level	
				l			and NOT the Effective Coverage Level.	

Reported Acreage

Record Name: Acreage Record Code: P11

Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

	Field	Record	Field	Field	Field	
Calculations	Name	Number	Number	Format	Rounding	Rules
	Premium Acre Guarantee Quantity	Internal		99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals.	Premium Acre Guarantee Quantity should be
					Otherwise, Round to 1 decimal.	Yield Conversion Factor must be valid; edit with
	Yield Conversion Factor	P11	59	9.999	None	the Yield Conversion ICE, "D00064".
Round(Guarantee Per Acre1 * Yield Conversion Factor, Acre Guarantee Quantity = lbs to 0, tons to 2, all other 1) * Guarantee Adjustment Factor	Acre Guarantee Quantity	P11	106	99999999.99	When Unit of Measure equals Pounds, "LBS", then Round to whole Number. When Unit of Measure equals Tons, "Tons", then Round to 2 decimals. Otherwise, Round to 1 decimal.	Acre Guarantee Quantity should be rounded to
	Yield Conversion Factor	P11	59	9.999	None	Yield Conversion Factor must be valid; edit with the Yield Conversion ICE, "D00064".
	Guarantee Adjustment Factor	P11	69	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting.
Premium Total Guarantee	Premium Total Guarantee	Internal		99999999.99	When Unit of Measure equals Barrels or Tons, then Round to 1 decimal. Otherwise, Round to whole number.	
	Reported Acreage	P11	48	999999.99	None	Reported Acreage must equal the sum of all

P11

48

None

Land, P27, Reported Acreage.

999999.99

Exhibit Name: Premium Calculation Exhibit Number: P11-9, Plan 90 Record Name: Acreage

Record Code: P11

	Field	Record	Field	Field	Field	
<u>Calculations</u>	<u>Name</u>	Number	Number	<u>Format</u>	Rounding	<u>Rules</u>
Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage	Total Guarantee Amount	P11	103	99999999.99	When Unit of Measure equals Barrels or Tons, then Round to 1 decimal. Otherwise, Round to whole number.	
	Reported Acreage	P11	48	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
	Price Election Amount	P11 (Internal)	45	9999.9999	See Appendix III Price Election Amount Rounding Exhibit P11- 8.	Result will be capped if based on Contract Price and it exceeds Contract Price Max.
Price Election Amount = ADM Price (or Contract Price) * Price Election Percent	ADM Price	ADM		99999.9999		Edit with ADM Price, "00810".
Fine Election Amount - Abia Fine (of contract Fine) Fine Election Fercent	Contract Price	P11	46	9999.9999	None	Contract Price, if applicable, should be entered in the Contract Price field.
	Price Election Percent	P14	35	9.9999	None	
Premium Total Guarantee Amount * Price Election	Premium Liability Amount	Internal		999999999	Round to whole number	
Amount * Insured Share Percent	Price Election Amount	P11	45	9999.9999	None	Edit with ADM Price, "A00810".
	Insured Share Percent	P11	43	9.9999	None	
For Mustard (commodity 0069):	Premium Liability Amount	Internal		999999999	Round to whole number	
(Lesser of "Reported Pounds or Premium Total Premium Liability Amount = Guarantee Amount") * Price Election Amount * Insured	Reported Pounds	P11	32	999999999	None	
Share Percent	Price Election Amount	P11	45	9999.9999	None	Edit with ADM Price, "A00810".
Share reicent	Insured Share Percent	P11	43	9.9999	None	
Total Guarantee Amount * Price Election Amount *	Liability Amount	P11	94	999999999	Round to whole number.	
Insured Share Percent	Price Election Amount	P11	45	9999.9999	None	
	Insured Share Percent	P11	43	9.9999	None	
For Mustard (commodity 0069):	Liability Amount	P11	94	999999999	Round to whole number	
(Lesser of "Reported Pounds or Total Guarantee	Reported Pounds	P11	32	999999999	None	
Liability Amount = Amount") * Price Election Amount * Insured Share	Price Election Amount	P11	45	9999.9999	None	Edit with ADM Price, "A00810".
Percent	Insured Share Percent	P11	43	9.9999	None	

Exhibit Number: P11-9, Plan 90

Record N Record Reinsurance Year: 2021 ved 021

Name: Acreage	Version: Approve
d Code: P11	Release Date: 6/3/202

	Comment Versus Viral d. Deti-	to the one of		0000000 00	Decord to 2 decimals	C+ 0 50 C+ 4 50
	Current Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
Current Year Yield Ratio = Rate Yield / Reference Yield	Rate Yield	P15	35	99999999.99	None	
	Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
en previous year yield limitation code = '03', Insurance Option Code List contair ing Contract "98":	ns Yield Cup (YC), and Commodity C	ode Dry Beans "	0047" and Ty	pe Code equals Contra	ct "62", or Commodity Cod	de equals Dry Peas "0067" and Type Code ed
	Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
Prior Year Yield Ratio = Round(Approved Yield * Contract Price,0) / Prior Year Reference Amount	Approved Yield	P11	42	99999999.99	None	
	Contract Price	P11	46	9999.9999	None	
	Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
en previous year yield limitation code = '03' and Insurance Option Code List con	tains Yield Cup (YC) and the aforen	nentioned comm	nodities/type	s are not applicable:		
	Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
Prior Year Yield Ratio = Approved Yield / Prior Year Reference Yield Amount	Approved Yield	P11	42	99999999.99	None	
Prior real field Kaulo – Approved field / Prior real Kelerence field Amount	Prior Year Reference Yield Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
nerwise:						
	Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
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 = Current Year Yield Ratio ^ Exponent Value	Current Year Rate Multiplier	Internal		999999.9999999	Round to 8 decimals.	
Multiplier = Current rear field Ratio - Exponent value	Exponent Value	ADM		\$99.999	None	Edit with ADM Base Rate, "A01010".
iar Voor Bata Multiplier - Drier Voor Vield Batia A Brier Voor Evpapant Value	Prior Year Rate Multiplier	Internal		999999.9999999	Round to 8 decimals.	
Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value	Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".

Record Name: Acreage Record Code: P11

		<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>
	When Rate Method Code equals Fixed Rate, "F": Sub County Rate	Current Year Base Rate	Internal		999999.99999999	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		9.9999	None	Edit with ADM Sub County Rate, "A01050".
Current Year Base Rate =	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".
	When Rate Method Code equals Fixed Rate, "F":	Prior Year Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	Sub County Rate						
	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		9.9999	None	Edit with ADM Sub County Rate, "A01050".
Prior Year Base Rate =	When Rate Method Code equals Multiplicative, "M":						
	Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Otherwise:						
	Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate	Prior Year Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".

Exhibit Number: P11-9, Plan 90
Record Name: Acreage
Record Code: P11

	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules
Current Year Base = Current Year Base Rate * Rate Differential Factor * Unit Premium Rate = Residual Factor.	Current Year Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	If Option Code "YC", "QL", "YE" or "TA" is applicable and the effective coverage level exceeds the highest coverage level for the offer in the ADM, see Section 14 for the Current Year Base Premium Rate calculation.
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". When Option Code 'YC', 'QL', 'YE' or 'TA' is elected, see section 12.
	Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". When Unit Structure Code equals "OU", "UA", "UD", or "BU", then Unit Residual Factor. When Unit Structure Code equals "EU" or "EP," then Enterprise Unit Residual Factor. When Option Code'YC', 'QL', 'YE' or 'TA' is elected, see section 13.
When previous year yield limitation code = '03' and Insurance Option Code List cont	ains Yield Cup (YC):					elected, see section 13.
	Prior Year Base Premium Rate	Internal		999999.9999999	Round to 8 decimals.	1
	Prior Year Rate Differential Factor	ADM			None	Edit with ADM Coverage Level Differential, "A01040".
Prior Year Base Premium Prior Year Base Rate * 1.05 * Prior Year Rate Differential Rate Factor * Prior Year Residual Factor * 1.2	Prior Year Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". When Unit Structure Code equals "OU", "UA", "UD", or "BU", then Prior Year Unit Residual Factor. When Unit Structure Code equals "EU" or"EP," then Prior Year Enterprise Unit Residual Factor.

Exhibit Number: P11-9, Plan 90
Record Name: Acreage

Record Code: P11

Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

Otherwise: Prior Year Base Premium Rate Internal 999999.9999999 Round to 8 decimals. Edit with ADM Coverage Level Differential, "A01040". Prior Year Rate Differential Factor ADM 9.9999999 None When Option Code 'YC', 'QL','YE' or 'TA' is elected, see section 12. Edit with ADM Coverage Level Differential, "A01040". Prior Year Base Premium _ Prior Year Base Rate * Prior Year Rate Differential Factor When Unit Structure Code equals "OU", "UA", Rate * Prior Year Residual Factor * 1.2 "UD", or "BU", then Prior Year Unit Residual Factor. Prior Year Unit Residual Factor ADM 9.999 None When Unit Structure Code equals "EU" or "EP," then Prior Year Enterprise Unit Residual Factor. When Option Code 'YC', 'QL', 'YE' or 'TA' is elected, see section 13. MIN (Current Year Base Premium Rate, Prior Year Base Base Premium Rate = Base Premium Rate 97 999999.9999999 P11 None Premium Rate, or .999) Field Field Field Field Record **Calculations** <u>Name</u> Number Number **Format** Rounding Rules Section 3: Optional Coverage Calculation Additive Optional Rate Internal 999999.9999 Round to 4 decimals. Adjustment Factor When Rate Method Code = A Option Rate ADM 9.9999 Edit with ADM Option Rate, "A01060". None Additive Optional Rate _ Edit with ADM Coverage Level Differential, Adjustment Factor SUM (Option Rate(s)) * Rate Differential Factor "A01040". Rate Differential Factor None ADM 9.9999999 When Option Code 'YC', 'QL', 'YE' or 'TA' is elected, see section 12. When Rate Method Code = M Multiplicative Optional Rate Multiplicative Optional = Internal 999999.9999 Round to 4 decimals. Adjustment Factor Rate Adjustment Factor Product (Option Rate(s)) Option Rate ADM 9.9999 None Edit with ADM Option Rate, "A01060".

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11 Reinsurance Year: 2021 Version: Approved

Release Date: 6/3/2021

Section 4: Premium Rate Calculation	Section 4: Premium Rate Calculation									
	Premium Rate	Internal		999999.99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000.				
Base Premium Rate * Unit Structure Discount Factor * Premium Rate = Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Unit Structure Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". When Unit Structure Code equals "OU", "UA", or "UD", then Unit Structure Discount Factor equals Optional Unit Discount Factor. When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor. If commodity (ie Dry Beans and Dry Peas) uses acres for determination of Unit Structure Discount Factor when Unit Structure Code equals "BU", Basic Unit Discount Factor is contingent upon the sum of reported acres which were not prevented from planting for the unit being greater than or equal to Area Low Quantity and less than or equal to Area High Quantity fields contained on the ADM Unit Discount, "A01090" for Coverage Level. If unit only has prevented planted acres then no discount, factor = 1.000. When Unit Structure Code equals "EU" or "EP", then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.				

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11 Reinsurance Year: 2021

Version: Approved

Release Date: 6/3/2021

Section 5: Total Premium, Subsidy, and Producer Premium Calculation								
	Preliminary Total Premium Amount	Internal		999999999	Round to whole number			
	Experience Factor	P11	47	9.999	None	Must be a value between minimum and maximum on ICE, "D10023".		
Preliminary Total Premium Liability Amount Premium Rate Experience Premium Amount Factor Premium Surcharge Percent	Premium Surcharge Percent	Internal		9.99	None	When Surcharge Applied Flag equals "Y", then Premium Surcharge Percent must equal 0.05, otherwise must equal 0.00. Does not apply when option "YC" is elected. Set to 1.00.		
Preliminary Total Premium Amount * Multiple Total Premium Amount =	Total Premium Amount	P11	95	999999999	Round to whole number			
Commodity 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	93	9999999999	Round to whole number	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 10 for subsidy calculations.		
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".		
Producer Premium = Total Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P11	96	999999999	Round to whole number			

Record Name: Acreage Record Code: P11

Record code						
						_
	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	<u>Rounding</u>	<u>Rules</u>
						Information (Approved Yield, Rate Yield,
						Reported Acreage, Insured Share Percent, Base
						Premium Rate) will be obtained from ELS Cotton
						P11 record associated with the Cottonseed
						record.
Cottonseed Endorsement Option 'SE'						
						If Yield Cup, Yield Exclusion, Quality Loss, or
						Trend APH is elected, see section 14 and 15 for
						the current year base premium rate calculation
						when the Effective Coverage Level exceeds the
						MAX ADM coverage level.
Section 6: Liability Calculation						
, , , , , , , , , , , , , , , , , , ,						
	Modified Yield	Internal		99999999.99	Round to whole Number.	
Modified Yield = Approved Yield * Option Conversion Factor						
	Approved Yield	P11	42	99999999.99	None	From ELS cotton P11 record.
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
					Round to whole Number.	
	Guarantee Per Acre1	Internal		99999999.99		
						For APH Trend, Quality Loss, and Yield Exclusion
Guarantee Per Acre1 = Modified Yield * Coverage Level Percent					l.,	the Coverage Level Percent in this section is
	Coverage Level Percent	P14	34	9.9999	None	ALWAYS the chosen coverage level and NOT the
						Effective Coverage Level.
					Round to whole Number.	
Premium Acre Guarantee = Guarantee Per Acre1	Premium Acre Guarantee	Internal		99999999.99		
Quantity	Quantity					
		544				
	Acre Guarantee Quantity	P11	106	99999999.99		
Acre Guarantee Quantity = Guarantee Per Acre1 * Guarantee Adjustment Factor						Edit with the Guarantee Adjustment ICE,
	Guarantee Adjustment Factor	P11	69	0.999	None	"D00068" or ADM Guarantee Adjustment,
						"A01220" for Prevented Planting.
	Premium Total Guarantee					The state of the s
Premium Total Guarantee = Premium Acre Guarantee Quantity * Reported Acreage	Amount	Internal		99999999.99	Round to whole number.	
Amount Amount	Reported Acreage	P11	48	999999.99	None	From ELS cotton P11 record.
Table Comments Associated Associated Comments Comments and Comments an	Total Guarantee Amount	P11	103	99999999.99	Round to whole number.	
Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage	Reported Acreage	P11	48	999999.99	None	From ELS cotton P11 record.
	Premium Liability Amount	Internal		999999999	Round to whole number	
Premium Liability Amount = Premium Total Guarantee Amount * Price Election Amount * Insured Share Percent	,			-		
	Price Election Amount		45	9999.9999	None	Edit with ADM Price, "A00810". Will always
	Frice Liection Amount		45	JJJJ.JJJ	NOTIC	equal 100% of Cottonseed Established Price.
		P11				
	Insured Share Percent	P11	43	9.9999	None	
Liability Amount - Total Guarantee Amount * Price Election Amount *	Liability Amount	P11	94	999999999	Round to whole number.	
Liability Amount = Insured Share Percent	Price Election Amount	P11	45	9999.9999	None	
insured Share Fellent	Insured Share Percent	P11	43	9.9999	None	

Record Name: Acreage Record Code: P11

	Calculations	<u>Field</u>	<u>Record</u> Number	<u>Field</u>	<u>Field</u>	<u>Field</u> Rounding	
Continue 7. Outland Covers		<u>Name</u>	Number	<u>Number</u>	<u>Format</u>	Kounding	Rules
Section 7: Optional Coverage	ge Calculation	Addition Outlined Bate		İ			_
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Rate	When Rate Method Code = A	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Adjustment Factor	= SUM (Option Rate(s)) * Rate Differential Factor	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". When Option Code 'YC', 'QL', 'YE' or 'TA' is elected, see section 12.
Multiplicative Optional	When Rate Method Code = M	Multiplicative Optional Rate	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor	= Product (Option Rate(s))	Adjustment Factor Option Rate	ADNA		9.9999	None	Edit with ADM Ontion Pate "A01060"
Section 8: Premium Rate Ca		Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Section 6. Freimum Rate Co	alculation	Premium Rate	Internal		999999.9999999	Round to 8 decimals.	_
		Base Premium Rate	P11	97	999999.9999999	None	From ELS cotton P11 record.
	Base Premium Rate * Unit Structure Discount Factor * = Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Unit Structure Discount Factor	ADM	31	9.999	None	From ELS cotton P11 record. Edit with ADM Unit Discount, "A01090". When Unit Structure Code equals "OU", "UA", or "UD", then Unit Structure Discount Factor equals Optional Unit Discount Factor. When Unit Structure Code equals "BU", then Unit Structure Discount Factor equals Basic Unit Discount Factor. When Unit Structure Code equals "EU" or "EP," then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.
Section 9: Total Premium, 3	Subsidy, and Producer Premium Calculation	Budinata and Tabal Businitian		ı			
		Preliminary Total Premium Amount	Internal		999999999	Round to whole number	
		Experience Factor	P11	47	9.999	None	Must be a value between minimum and maximum on ICE, "D10023".
Prediminary Total = Premium Liability Amount * Premium Rate * Exp Premium Amount = Factor * Premium Surcharge Percent	Premium Liability Amount * Premium Rate * Experience Factor * Premium Surcharge Percent	Premium Surcharge Percent	Internal		9.99	None	When Surcharge Applied Flag equals "Y", then Premium Surcharge Percent must equal 0.05, otherwise must equal 0.00. Does not apply when option "YC" is elected. Set to 1.00.
	Preliminary Total Premium Amount * Multiple	Total Premium Amount	P11	95	999999999	Round to whole number	
Total Premium Amount =	Preliminary Total Premium Amount * Multiple Commodity 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	93	999999999	Round to whole number	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 10 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	96	999999999	Round to whole number	

Record Name: Acreage Record Code: P11

Field Person Field Field Field									
Calculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules			
Section 10: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), N						nuics			
	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.			
Base Subsidy Amount = Total Premium Amount * Subsidy Percent	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		9999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).			
Native Sod Subsidy Amount = Total Premium Amount * 0.50	Native Sod Subsidy Amount	Internal		9999999999	Round to whole number	If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.			
CC Subsidy Reduction	CC Subsidy Reduction Percent	P11	76	9.9999	None	If Applicable; else 0.			
CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Amount	P11	111	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.			
Base Subsidy Amount + BFR/VFR Subsidy Amount - Subsidy Amount = Native Sod Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P11	93	9999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0.			
Producer Premium = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	96	999999999	Round to whole number				
Trend APH (Option 'TA'), Yield Cup (Option 'YC'), Quality Loss (Option 'QL'), and Yield Exclusion (Option 'YE')	Trend Adjustment Option (TA), Yield Cup Option (YC), Quality Loss (QL), and Yield Exclusion Option (YE) ONLY available in select counties for selected crops.								
Section 11: Effective Coverage Level Calculation									
When Commodity Code equals Dry Beans "0047" and Type Code equals Contract "	62", or Commodity Code equals Dry	Peas "0067" ar	nd Type Code	equals Spring Contrac	ct "98":				
	Effective Coverage Level Percent	Internal		99.9999	Round to 2 decimals.				
	Coverage Level Percent	P14	34	9.9999	None				
Effective Coverage Level = Coverage Level Percent * Round(Approved Yield * Percent = Contract Price,0) / Adjusted Yield	Approved Yield	P11	42	99999999.99	None	For APH Trend, Yield Cup, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated Approved Yield and the Adjusted Yield. For skip row commodities, the approved yield is the converted Approved Yield from the P15 record with skip row (yield conversion factor) applied.			
	Contract Price	P11	46	9999.9999	None	аррисси.			
	Adjusted Yield	P15	44	9999999999999	None	For skip row commodities, the Adjusted Yield is the converted Adjusted Yield from the P15 record with skip row (yield conversion factor) applied.			

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Record Code: P11

For a	ll otl	hers:

	Effective Coverage Level Percent	Internal		99.9999	Rounded to 2 decimal places.	
	Coverage Level Percent	P14	34	9.9999	None	
Effective Coverage Level = Coverage Level Percent * Approved Yield/Adjusted Yield Percent	i Approved Yield	P11	42	99999999.99	None	For APH Trend, Yield Cup, Quality Loss, and Yield Exclusion, the Approved Yield will be the greater of the calculated approved yield and the adjusted yield.
	Adjusted Yield	P15	44	99999999.99	None	
	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>	
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>

Section 12: Rate Differential Factor

When Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Cup Option "YC" was chosen or when Quality Loss Option "QL" is chosen or when Yield Exclusion Option "YE" was chosen.

When the Insurance Option Code List contains Options "YE", "QL", or "YC":

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Record Name: Acreage Record Code: P11 Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

Rate Differential Factor 9.999999999 Round to 9 decimal places Internal Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Base Rate Differential Factor ADM 9.99999999 None Coverage Level 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 Upper Bound Rate Differential the Effective Coverage Level. ADM 9.99999999 None Factor If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. (1+ (ROUND (MIN ((MAX (0.85, Effective Coverage If the Effective Coverage Level is greater than Level Percent) -0.85) / 0.15) ,1)3 ,7)) * 0.05) * the maximum ADM Coverage Level then this will (Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor = be based on the highest ADM Coverage Level. Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)) Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals ar existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. Lower Bound Rate Differential If the Effective Coverage Level Percent falls ADM 9.99999999 None Factor between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Percent 99.9999 None Internal Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an (1+ (ROUND (MIN ((MAX (0.85, Effective Coverage existing ADM Coverage Level then this will be Level Percent) -0.85) / 0.15) ,1)3 ,7)) * 0.05) * the Effective Coverage Level Percent. Rate Differential Factor _ (Round(Base Rate Differential Factor + (Upper Bound | Floored Effective Coverage Level If the Effective Coverage Level Percent falls Internal 99.9999 None (contintued) Percent between existing ADM Coverage Levels then this Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent will be the lower ADM Coverage Level. - Floored Effective Coverage Level Percent) * 20, 9)) If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11

		Prior Year Rate Differential Factor	Internal	9.99999999	Round to 9 decimal places.	
	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) * 20, 9)	Base Prior Year Rate Differential Factor	ADM	9.99999999	None	Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Prior Year Rate Di Prior Year Rate Differential Factor Service Prior Year Rate Different Level Percent - Floored E		Upper Bound Prior Year Rate Differential Factor	ADM	9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
		Lower Bound Prior Year Rate Differential Factor	ADM	9.999999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11 Reinsurance Year: 2021

Version: Approved

Release Date: 6/3/2021 Effective Coverage Level Percent Internal 99.9999 None Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". Round(Base Prior Year Rate Differential Factor + (Upper If the Effective Coverage Level Percent equals an Prior Year Rate Bound Prior Year Rate Differential Factor - Lower Bound existing ADM Coverage Level then this will be Differential Factor = Prior Year Rate Differential Factor) * (Effective Coverage the Effective Coverage Level Percent. (continued) Level Percent - Floored Effective Coverage Level If the Effective Coverage Level Percent falls Percent) * 20, 9) Floored Effective Coverage Level between existing ADM Coverage Levels then this Internal 99.9999 None Percent will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90 Record Name: Acreage

Record Code: P11

Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

When Trend Adjustment Option "TA" is elected alone (excludes "YC", "QL", and "YE") Rate Differential Factor Internal 9.99999999 Round to 9 decimal places Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Base Rate Differential Factor ADM 9.99999999 None Coverage Level 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. Upper Bound Rate Differential ADM 9.99999999 If the Effective Coverage Level falls between None Factor existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than Round(Base Rate Differential Factor + (Upper Bound the maximum ADM Coverage Level then this will Rate Differential Factor - Lower Bound Rate Differential Rate Differential Factor = be based on the highest ADM Coverage Level. Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9) Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls Lower Bound Rate Differential ADM 9.99999999 between existing ADM Coverage Levels then this None Factor will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Percent Internal 99.9999 None 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. Round(Base Rate Differential Factor + (Upper Bound If the Effective Coverage Level Percent falls Rate Differential Factor Rate Differential Factor - Lower Bound Rate Differential Floored Effective Coverage Level Internal 99.9999 None between existing ADM Coverage Levels then this (continued) Factor) * (Effective Coverage Level Percent - Floored Percent will be the lower ADM Coverage Level. Effective Coverage Level Percent) * 20, 9) If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90 Record Name: Acreage Record Code: P11 Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

Prior Year Rate Differential Factor Internal 9,99999999 Round to 9 decimal places. Base Prior Year Rate Differential Factor is equal to Prior Year Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) Base Prior Year Rate Differential ADM 9.99999999 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 equals an existing ADM Coverage Level then this will be based on Upper Bound Prior Year Rate the Effective Coverage Level. ADM 9.99999999 None Differential Factor If the Effective Coverage Level falls between Round(Base Prior Year Rate Differential Factor + (Upper existing ADM Coverage Levels then this will be Bound Prior Year Rate Differential Factor - Lower Bound Prior Year Rate based on the higher ADM Coverage Level. = Prior Year Rate Differential Factor) * (Effective Coverage **Differential Factor** If the Effective Coverage Level is greater than Level Percent - Floored Effective Coverage Level the maximum ADM Coverage Level then this will Percent) * 20, 9) be based on the highest ADM Coverage Level. 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. Lower Bound Prior Year Rate ADM 9.99999999 If the Effective Coverage Level falls between None Differential Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Percent Internal 99.9999 None 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 Round(Base Prior Year Rate Differential Factor + (Upper the Effective Coverage Level Percent. Prior Year Rate Bound Prior Year Rate Differential Factor - Lower Bound If the Effective Coverage Level Percent falls Floored Effective Coverage Level Differential Factor = Prior Year Rate Differential Factor) * (Effective Coverage 99.9999 Internal None between existing ADM Coverage Levels then this Percent Level Percent - Floored Effective Coverage Level will be the lower ADM Coverage Level. (continued) Percent) * 20, 9) If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90
Record Name: Acreage

Record Code: P11

Record Code	: P11			Release Date	5 0/3/2021	
<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Section 13: Unit Residual Factor						The lookup/interpolation/extrapolation procedure for 'Unit Residual Factor and Prior Unit Residual Factor' when Trend Adjustment Option (TA) was chosen and yield reflects a trend or when Yield Cup Option "YC" was chosen or when Quality Loss Option "QL" was chosen, or when Yield Exclusion Option "YE" was chosen.
When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Un	it, "BU", use the following calculation	ons for Unit Re	sidual Factor a	and Prior Year Unit Res	idual Factor:	
	Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
	Base Unit Residual Factor	ADM		999.999	None	Base Unit Residual Factor is equal to Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Round(Base Unit Residual Factor + (Upper Bound Unit Residual Factor - Lower Bound Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Upper Bound Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
	Lower Bound Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		99.9999	None	

Exhibit Name: Premium Calculation Exhibit Number: P11-9, Plan 90 Reinsurance Year: 2021 Record Name: Acreage Version: Approved Record Code: P11 Release Date: 6/3/2021 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. Round(Base Unit Residual Factor + (Upper Bound Unit If the Effective Coverage Level Percent falls Unit Residual Factor $_$ Residual Factor - Lower Bound Unit Residual Factor) * Floored Effective Coverage Level Internal 99.9999 None between existing ADM Coverage Levels then this (continued) (Effective Coverage Level Percent - Floored Effective Percent will be the lower ADM Coverage Level. Coverage Level Percent) * 20, 3) If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Record Name: Acreage Record Code: P11

Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules	
	Prior Year Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure	
	Base Prior Year Unit Residual Factor	ADM		999.999	None	Base Prior Year Unit Residual Factor is equal to Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".	
Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound = Prior Year Unit Residual Factor * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	Upper Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.	
	Lower Bound Prior Year Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.	
	Effective Coverage Level Percent	Internal		99.9999	None		
Round(Base Prior Year Unit Residual Factor + (Upper Bound Prior Year Unit Residual Factor - Lower Bound Factor (continued) = Prior Year Unit Residual Factor) * (Effective Coverage Level Percent) * 20, 3)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.	

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11

	<u>Field</u>	Record	<u>Field</u>	<u>Field</u>	<u>Field</u>				
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	Rules			
When Unit Structure Code is equal to Enterprise Unit, 'EU' or 'EP', use the following calculations for Enterprise Unit Residual Factor and Prior Year Enterprise Unit Residual Factor:									
	Enterprise Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure			
	Base Enterprise Unit Residual Factor	ADM		999.999	None	Base Enterprise Unit Residual Factor is equal to Enterprise Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".			
Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent) * 20, 3)	Upper Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.			
	Lower Bound Enterprise Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.			
	Effective Coverage Level Percent	Internal		99.9999	None				

Exhibit Name: Premium Calculation Exhibit Number: P11-9, Plan 90 Reinsurance Year: 2021 Record Name: Acreage Version: Approved Record Code: P11 Release Date: 6/3/2021 Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an Round(Base Enterprise Unit Residual Factor + (Upper existing ADM Coverage Level then this will be Enterprise Unit Residual Bound Enterprise Unit Residual Factor - Lower Bound the Effective Coverage Level Percent. Floored Effective Coverage Level Factor = Enterprise Unit Residual Factor) * (Effective Coverage Internal 99.9999 None If the Effective Coverage Level Percent falls Percent (continued) Level Percent - Floored Effective Coverage Level between existing ADM Coverage Levels then this Percent) * 20, 3) 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.

Record Name: Acreage Record Code: P11 Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

The cap value for the Residual Factors is the Prior Year Enterprise Unit 999.999 Internal Round to 3 decimal places. MAX(Residual Factor) from all coverage levels Residual Factor within the chosen unit structure Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Base Enterprise Prior Year Unit Minimum of 1) Maximum available Coverage ADM 999.999 None Residual Factor Level or; 2) available Coverage Level 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. **Upper Bound Prior Year** If the Effective Coverage Level falls between Round(Base Enterprise Prior Year Unit Residual Factor + ADM 999.999 None Enterprise Unit Residual Factor existing ADM Coverage Levels then this will be (Upper Bound Prior Year Enterprise Unit Residual Factor Prior Year Enterprise Unit = - Lower Bound Prior Year Enterprise Unit Residual based on the higher ADM Coverage Level. **Residual Factor** Factor) * (Effective Coverage Level Percent - Floored If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will Effective Coverage Level Percent) * 20, 3) be based on the highest ADM Coverage Level. 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. Lower Bound Prior Year ADM 999.999 None If the Effective Coverage Level falls between Enterprise Unit Residual Factor existing ADM Coverage Levels then this will be based on lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level. Effective Coverage Level Percent Internal 99.9999 None 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 Round(Base Enterprise Prior Year Unit Residual Factor + Effective Coverage Level. (Upper Bound Prior Year Enterprise Unit Residual Factor Prior Year Enterprise Unit Floored Effective Coverage Level If the Effective Coverage Level falls between = - Lower Bound Prior Year Enterprise Unit Residual 99,9999 Internal None **Residual Factor** Percent existing ADM Coverage Levels then this will be Factor) * (Effective Coverage Level Percent - Floored the lower ADM Coverage Level. Effective Coverage Level Percent) * 20, 3) If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

Exhibit Number: P11-9, Plan 90
Record Name: Acreage
Record Code: P11

Reinsurance Year: 2021 Version: Approved Release Date: 6/3/2021

Section 14: Yield Cup, Yield Exclusion, Quality Loss, and Trend APH Current Year Base Premium Rate Calculations (only use when the Effective Coverage Level for the record exceeds the highest coverage level for the offer in the ADM).

		Unadjusted Liability Amount	Internal		999999999	Round to whole number	
Unadjusted Liability	_Round((Coverage Level Percent/Effective Coverage	Coverage Level Percent	P14	34	9.9999	None	
	Level Percent),10) * Premium Liability Amount	Effective Coverage Level Percent	Internal		99.9999		
		Premium Liability Amount	Internal		999999999	Round to whole number	
		Max Coverage Level Adjustment Factor	Internal		999999999999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit,	Unadjusted Liability Amount	Internal		999999999	Round to whole number	
	"OU", "UA" &"UD:	Current Year Base Rate	Internal		99999999999999	Round to 8 decimals.	
	00 , 0A & 0D.	Premium Liability Amount	Internal		999999999	Round to whole number	
	ROUND(1.00/ Current Year Base Rate,8) –	Base Rate Differential Factor	ADM		9.99999999	None	
Max Coverage Level	ROUND(Unadjusted Liability Amount/(Current Year	Base Unit Residual Factor	ADM		999.999	None	
Adjustment Factor	Base Rate * Premium Liability Amount),8) + ROUND(ROUND(Base Rate Differential Factor * Base Unit Residual Factor * Unit Structure Discount Factor * Unadjusted Liability Amount,8)/Premium Liability Amount,8)	Unit Structure Discount Factor	ADM		9.99999999	None	Base Optional Unit Structure Discount Factor is equal to Optional Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040". See Section 13 for more info.

Record Name: Acreage Record Code: P11

	Calculations	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
		Marginal Rate Adjustment Factor	Internal		9.99999999	Round to 8 decimals.	
		Max Coverage Level Adjustment Factor	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Unit Residual Factor * Unit	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040." See Section 12 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), Quality Loss "QL",and "YE" (Yield Exclusion).
Marginal Rate Adjustment Factor	Structure Discount Factor)	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040." See Section 13 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
		Unit Structure Discount Factor	Internal		9.9999999	None	Capped at 1.0.
	When Unit Structure code is Enterprise Unit, "EU" or "EP": Max Coverage Level Adjustment Factor /(Rate Differential Factor * Enterprise Unit Residual Factor * Unit Structure Discount Factor)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 13 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss) and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.
		Current Year Base Premium Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 12 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Current Year Base Premium Rate	Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 13 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
		Marginal Rate Adjustment Factor	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
=	When Unit Structure code is Enterprise Unit, "EU" or "EP": Round(Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 13 for Option Code "TA" (Trend Adjustment). "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Enterprise Unit, 'EU' or 'EP'.

Exhibit Number: P11-9, Plan 90

Record Name: Acreage Record Code: P11 Reinsurance Year: 2021 Version: Approved

Release Date: 6/3/2021

	<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 15: Yield Cup, Qual ADM).	ity Loss, Yield Exclusion and Trend APH for CottonseedC	Current Year Base Premium Rate Ca	alculations (onl	y use when th	e Effective Coverage L	evel for the record exceeds the	e highest coverage level for the offer in the
		Current Year Base Premium Rate	Internal		99999999999999999	Round to 8 decimals.	
	Round(Current Year Base Rate * Rate Differential Factor	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 12 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion).
Current Year Base Premium Rate	* Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040". See Section 13 for Option Code "TA" (Trend Adjustment), "YC" (Yield Cup), "QL" (Quality Loss), and "YE" (Yield Exclusion) where Unit Structure Code equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, 'BU'.
		Marginal Rate Adjustment Factor	Internal		99999999999999999	Round to 8 decimals.	Copy value over from the base lint line.

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Section 16: Unit Structure Discount Factor for Yield Cup, Yield Exclusion, Quality Loss, and Trend APH

The lookup/interpolation/extrapolation procedure for 'Optional Unit Discount Factor, Basic Unit Discount Factor, and Enterprise Unit Discount Factor' when Trend Adjustment Option (TA), Yield Cup Option (YC), Quality Loss (QL), or Yield Exclusion Option (YE) was chosen and yield reflects a trend.

When Unit Structure Code is equal to Optional Unit, "OU", "UA", or "UD", use the fo	ollowing calculation for Unit Struct Unit Structure Discount Factor	ure Discount Facto	or: 9.99999999	Round to 4 decimal places.	(TA), Yield Cup Option (YC), Quality Loss (QL), or Yield Exclusion Option (YE) was chosen and yield reflects a trend. Capped at 1.0
	Base Coverage Level Percent Optional Unit Discount Factor	ADM	9.99999999	None	Base Coverage Level Percent Optional Unit Discount Factor is equal to Percent Optional Discount for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".
Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level Percen Unit Structure Discount Factor Optional Unit Discount Factor - Lower Bound Coverage Factor Level Percent Optional Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage		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.
Level Percent) * 20, 4)	Lower Bound Coverage Level Percent Optional Unit Discount 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 the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal	99.9999	None	

Exhibit Name: Premium Calculation Exhibit Number: P11-9, Plan 90 Reinsurance Year: 2021 Record Name: Acreage Version: Approved Record Code: P11 Release Date: 6/3/2021 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 Round(Base Coverage Level Percent Optional Unit Effective Coverage Level. Discount Factor + (Upper Bound Coverage Level Percent **Unit Structure Discount** Optional Unit Discount Factor - Lower Bound Coverage Floored Effective Coverage Level If the Effective Coverage Level falls between 99.9999 Internal None Level Percent Optional Unit Discount Factor) * (Effective Percent existing ADM Coverage Levels then this will be (continued) Coverage Level Percent - Floored Effective Coverage the lower ADM Coverage Level. Level Percent) * 20, 4) 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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When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor: Unit Structure Discount Factor Internal 9.999999999 Round to 4 decimal places. Capped at 1.0 Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Base Coverage Level Percent Basic Minimum of 1) Maximum available Coverage ADM 9.99999999 None Unit Discount Factor Level or; 2) available Coverage Level 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 Upper Bound Coverage Level the Effective Coverage Level. Percent Basic Unit Discount 9.99999999 ADM None Round(Base Coverage Level Percent Basic Unit Discount If the Effective Coverage Level falls between Factor Factor + (Upper Bound Coverage Level Percent Basic existing ADM Coverage Levels then this will be Unit Structure Discount Unit Discount Factor - Lower Bound Coverage Level based on the higher ADM Coverage Level. Factor Percent Basic Unit Discount Factor) * (Effective If the Effective Coverage Level is greater than Coverage Level Percent - Floored Effective Coverage the maximum ADM Coverage Level then this will Level Percent) * 20, 4) be based on the highest ADM Coverage Level. 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 Lower Bound Coverage Level the Effective Coverage Level. Percent Basic Unit Discount ADM None If the Effective Coverage Level falls between Factor 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. 99.9999 Effective Coverage Level Percent Internal None Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Round(Base Coverage Level Percent Basic Unit Discount Effective Coverage Level. Factor + (Upper Bound Coverage Level Percent Basic Unit Discount Factor - Lower Bound Coverage Level If the Effective Coverage Level falls between Floored Effective Coverage Level Unit Structure Discount Internal 99.9999 None existing ADM Coverage Levels then this will be Factor (continued) Percent Basic Unit Discount Factor) * (Effective Percent the lower ADM Coverage Level. Coverage Level Percent - Floored Effective Coverage If the Effective Coverage Level is greater than Level Percent) * 20, 4) the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.

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When Unit Structure Code is	hen Unit Structure Code is equal to Enterprise Unit, 'EU' or 'EP', use the following calculation for Unit Structure Discount Factor:								
		Unit Structure Discount Factor	Internal	9.99999999	Round to 4 decimal places.	Capped at 1.0			
Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent Unit Structure Discount = Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Base Coverage Level Percent Enterprise Unit Discount Factor	ADM	9.999999999	None	Base Coverage Level Percent Enterprise Unit Discount Factor is equal to Enterprise Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".				
	Upper Bound Coverage Level Percent Enterprise Unit Discount Factor	ADM	9.999999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.				
Round(Base Coverage Level Percent Enterprise Unit Discount Factor + (Upper Bound Coverage Level Percent	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.				
Factor (continued)	Enterprise Unit Discount Factor - Lower Bound Coverage Level Percent Enterprise Unit Discount Factor) *	Effective Coverage Level Percent	Internal	99.9999	None				
	(Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Floored Effective Coverage Level Percent	Internal	99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.			