Exhibit Name: Premium Calculation

Exhibit Number: P11-9, Plan 90

Reinsurance Year: 2023

	Record Name: Acreage Record Code: P11				Version Release Date	: Draft	
	Insurance Plan Code	90 Actual Production History				10/2023	
Commodity Code	O012 Blueberries O013 Onions O016 Oats O017 Millet O019 Avocados O022 Cotton Extra Long O023 Macadamia Nuts O028 Almonds O029 Walnuts O031 Flax O033 Forage Production O034 Peaches O036 Prunes O038 Sugar Cane O039 Sugar Beets O042 Sweet Corn O046 Processing Beans O047 Dry Beans O049 Safflower O052 Table Grapes	0053 Grapes 0054 Apples 0055 Culti Wild Rice 0058 Cranberries 0059 Silage Sorghum 0060 Figs 0064 Green Peas 0067 Dry Peas 0069 Mustard 0072 Cabbage 0074 Mint 0079 Clary Sage 0084 Potatoes 0086 Fresh Tomatoes 0087 Tomatoes 0089 Pears 0092 Fresh Plums 0094 Rye 0102 Grass Seed 0105 Fresh Market Beans			0107 Alfalfa Seed 0114 Buckwheat 0132 Cucumbers 0147 Pumpkins 0156 Sweet Potatoes 0158 Triticale 0201 Grapefruit 0202 Lemons 0203 Tangelos 0218 Fresh Apricots 0219 Processing Apric 0220 Fresh Nectarine 0221 Processing Cling 0222 Processing Frees 0223 Fresh Freestone 0227 Oranges 0229 Flue Cured Toba 0230 Fire Cured Toba 0231 Burley Tobacco 0232 Maryland Tobac	s Peaches stone Peaches	0233 Dark Air Tobacco 0234 Cigar Filler Tobacco 0235 Cigar Bindr Tobacco 0236 Cigar Wrapper Tobacco 0255 Banana 0256 Coffee 0257 Papaya 0309 Mandarins/Tangerines 0333 Camelina 0396 Sesame 0467 Pomegranate 0470 Pistachios 0501 Olives 1302 Tangors 1218 Hemp 6000 Caneberries
	<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules
ction 1: Liability Amou	<u>nt</u>						
Guarantee Per Acres	1 = Approved Yield * Coverage Level Percent	Guarantee Per Acre1	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. Otherwise, Round to 1 decimal.	Guarantee Per Acre1 should be rounded to whole pounds for Dry Beans, "0047" (all types and Dry Peas, "0067" (all types).
		Approved Yield	P11	42	99999999.99	None	
		Coverage Level Percent	P14	34	9.9999	None	For APH Trend, Yield Cup, Quality Loss and Yie Exclusion the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
	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. Otherwise, Round to 1 decimal.	Premium Acre Guarantee Quantity should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Yield Conversion Factor	P11	59	9.999	None	When Commodity Code is '0021' and Skip Row Code is not one of the following values: '117', '217', '317' and Practice Code is one of the following values: '063', '073', '083', '729', '730', '731', '732', '733', '734' and Yield Conversion Factor exists Yield Conversion Factor must be valid; edit with the Yield Conversion ICE, "D00064" record.
	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 whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
Round(Guarantee Per Acre1 * Yield Conversion Factor, Acre Guarantee Quantity = lbs to 0, tons to 2, all other 1) * Guarantee Adjustment Factor		P11	59	9.999	None	When Commodity Code is '0021' and Skip Row Code is not one of the following values: '117', '217', '317' and Practice Code is one of the following values: '063', '073', '083', '729', '730', '731', '732', '733', '734' and Yield Conversion Factor exists Yield Conversion Factor must be valid; edit with the Yield Conversion ICE, "D00064" record.
	Guarantee Adjustment Factor	P11	69	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting.

<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>
Premium Total Guarantee	Premium Total Guarantee	Internal		9999999.99	When Unit of Measure equals Barrels or Tons, then Round to 1 decimal.	
Premium Total Guarantee					Otherwise, Round to whole number.	
	Reported Acreage	P11	48	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
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 = ADM Price (or Contract Price) * Price Election Percent	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.
	ADM Price	ADM		99999.9999		Edit with ADM Price, "00810".
	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 = Amount * Insured Share Bareage	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".
For Mustard (commodity 0069):	Insured Share Percent	P11	43	9.9999	None	
(Lesser of "Reported Pounds or Premium Total	Premium Liability Amount	Internal		9999999999	Round to whole number	
Premium Liability Amount = Guarantee Amount") * Price Election Amount * Insured	Reported Pounds	P11	32	999999999	None	Edit with ADAA Dries HACCOACH
Share Percent	Price Election Amount Insured Share Percent	P11 P11	45 43	9999.9999 9.9999	None None	Edit with ADM Price, "A00810".
Total Cuarantae Amount * Drice Floation Amount *	Liability Amount	P11	94	999999999	Round to whole number.	
Liability Amount = Total Guarantee Amount * Price Election Amount * Insured Share Percent	Price Election Amount	P11	45	9999.9999	None	
insured share referre	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 Percent	Price Election Amount	P11	45	9999.9999	None	Edit with ADM Price, "A00810".
rercent	Insured Share Percent	P11	43	9.9999	None	
Section 2: Base Premium Rate Calculation						
	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	99999999999	None	Edit with ADMA Dece Bet HAGAGAG
When previous year yield limitation code = '03', Insurance Option Code List contain Spring Contract "98":	Reference Yield as Yield Cup (YC), and Commodity	ADM Code Dry Beans	"0047" and T	99999.99 Type Code equals Conf	None tract "62", or Commodity Code	Edit with ADM Base Rate, "A01010". equals Dry Peas "0067" and Type Code equals
	Prior Year Yield Ratio	Internal		9999999.99	Round to 2 decimals.	
	Approved Yield	P11	42	99999999.99	None	
Prior Year Yield Ratio = Round(Approved Yield * Contract Price,0) / Prior Year	Contract Price	P11	46	9999.9999	None	
Reference Amount	Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".

	<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
When previous year yield I	imitation code = '03' and Insurance Option Code List con	tains Yield Cup (YC) and the aforen	nentioned com	modities/typ			
		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	
THOI Teal Held Racio	Approved Heldy From Fedi Reference Field Almount	Prior Year Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
		Amount	7.0.01		3333.33	The little was a second of the little was a seco	Tall Williams Buse Nate, 7,01010
Otherwise:		D: V V5 115 V			000000000		
		Prior Year Yield Ratio	Internal	25	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 real field hatto - 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		999999.9999999	Round to 8 decimals.	
The teat had manupile	T	Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".
	When Rate Method Code equals Fixed Rate, "F": Sub County Rate	Current Year Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	Sub county nate						
	When Rate Method Code equals Additive, "A":						
Current Year Base Rate	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 rear base nate	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":						
	when hate Method Code equals Fixed hate, F.	Prior Year Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	Sub County Rate	Thor rear base nate	memai		333333.33333333	Rodrid to o decimals.	
	53.5 553, 1.0.5						
	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":	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)				-		,
	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".

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</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 con	tains Yield Cup (YC):					
	Prior Year Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
	Prior Year Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Prior Year Base Premium = Prior Year Base Rate * 1.05 * Prior Year Rate Rate Differential 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" then Prior Year Enterprise Unit Residual Factor.
Otherwise:						
	Prior Year Base Premium Rate	Internal		999999.9999999	Round to 8 decimals.	
	Prior Year 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.
Prior Year Base Premium = Prior Year Base Rate * 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" then Prior Year Enterprise Unit Residual Factor. When Option Code 'YC', 'QL', 'YE' or 'TA' is elected, see section 13.

	<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>
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate, or .999)	Base Premium Rate	P11	97	999999.99999999	None	
Section 3: Optional Coverage	ge Calculation						
		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Rate	When Rate Method Code = A = SUM (Option Rate(s)) * Rate Differential Factor	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Additive Optional Rate = Adjustment 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 Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor	Product (Option Rate(s))	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Section 4: Premium Rate Ca	alculation						
		Premium Rate	Internal		999999.99999999	Round to 8 decimals.	Premium Rate is capped at 0.99900000.
Premium Rate	Base Premium Rate * Unit Structure Discount Factor * = 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"—then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.

<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 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 * Premium Amount = Experience Factor * Premium Surcharge Percent	Premium Surcharge Percent	Internal		9.99	None	When Surcharge Applied Flag equals "Y", then Premium Surcharge Percent must equal .05, otherwise must equal .00. Does not apply when option "YC" is elected. Set to 1.00.			
	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	Producer Premium Amount	P11	96	999999999	Round to whole number				
Cottonseed Endorsement Option 'SE'									
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 None	Edit with ADM Option Rate, "A01060".			
	Guarantee Per Acre1	Internal		99999999.99	Round to whole Number.				
Guarantee Per Acre1 = Modified Yield * Coverage Level Percent	Coverage Level Percent	P14	34	9.9999	None	For APH Trend, Quality Loss, and Yield Exclusion the Coverage Level Percent in this section is ALWAYS the chosen coverage level and NOT the Effective Coverage Level.			

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Premium Acre Guarantee Guarantee Per Acre1 Quantity	Premium Acre Guarantee Quantity	Internal		99999999.99	Round to whole Number.	
	Acre Guarantee Quantity	P11	106	9999999.99	Round to whole number.	
Acre Guarantee Quantity = Guarantee Per Acre1 * Guarantee Adjustment Factor	Guarantee Adjustment Factor	P11	69	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068" or ADM Guarantee Adjustment, "A01220" for Prevented Planting.
mium Total Guarantee Amount = Premium Acre Guarantee Quantity * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to whole number.	
	Reported Acreage	P11	48	999999.99	None	From ELS cotton P11 record.
Total Guarantee Amount = Acre Guarantee Quantity * Reported Acreage	Total Guarantee Amount	P11	103	99999999.99	Round to whole number.	
	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	P11	45	9999.9999	None	Edit with ADM Price, "A00810". Will always equal 100% of Cottonseed Established Price.
	Insured Share Percent	P11	43	9.9999	None	
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 Percent	P11	43	9.9999	None	
Section 7: Optional Coverage Calculation						
	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 Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Rate Adjustment Factor Product (Option Rate(s))	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Section 8: Premium Rate Calculation						
	Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
	Base Premium Rate	P11	97	999999.99999999	None	From ELS cotton P11 record.
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	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" then Unit Structure Discount Factor equals Enterprise Unit Discount Factor.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Section 9: Total Premium, Subsidy, and Producer Premium Calculation						
	Preliminary Total Premium Amount	Internal		999999999	Round to whole number	
Preliminary Total = Premium Liability Amount * Premium Rate * Premium Amount = Experience Factor * Premium Surcharge Percent	Experience Factor	P11	47	9.999	None	Must be a value between minimum and maximum on ICE, "D10023".
	Premium Surcharge Percent	Internal		9.99	None	When Surcharge Applied Flag equals "Y", then Premium Surcharge Percent must equal .05, otherwise must equal .00. Does not apply when option "YC" is elected. Set to 1.00.
Droliminary Total Dromium 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	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	Producer Premium Amount	P11	96	999999999	Round to whole number	
Section 10: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), N	ative Sod (NS) and Conservation Co	ompliance (CC)	Subsidy Calcu	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.
base subsidy Amount - rotal Fremium Amount Subsidy Fercent	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. 0.10 (10%).
Native Sod Subsidy Amount = Total Premium Amount * 0.50	Native Sod Subsidy Amount	Internal		999999999	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	999999999	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 Amount	Producer Premium Amount	P11	96	999999999	Round to whole number	

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	<u>Rules</u>				
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" and Type Code equals Spring Contract "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					
	Adjusted Yield	P15	44	99999999.99	None	For skip row commodities, the Adjusted Yield is the converted Adjusted Yield from the P15 record with skip row (yield conversion factor) applied.				
For all others:										
	Effective Coverage Level Percent	Internal		99.9999	Rounded to 2 decimal places.					
	Coverage Level Percent	P14	34	9.9999	None					
Effective Coverage Level Percent * Approved Yield/Adjusted Percent * 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.				
	Adjusted Yield	P15	44	99999999.99	None					

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<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":										
	Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places					
	Base Rate Differential Factor	ADM		9.999999999	None	Base Rate Differential Factor is equal to Rate Differential for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".				
(1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * Rate Differential Factor = (Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9))	Upper Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.				
	Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater 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					

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
(1+ (ROUND (MIN (((MAX (0.85,Effective Coverage Level Percent) -0.85) / 0.15) ,1) ³ ,7)) * 0.05) * (Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9))	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level Level.
	Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.	
	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".
	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.

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

<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>
	Upper Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.
Round(Base Rate Differential Factor + (Upper Bound Rate Differential Factor = Rate Differential Factor - Lower Bound Rate Differential Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Lower Bound Rate Differential Factor	ADM		9.99999999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
	Effective Coverage Level Percent	Internal		99.9999	None	
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level Level.
	Prior Year Rate Differential Factor	Internal		9.99999999	Round to 9 decimal places.	

<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> <u>Number</u>	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	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 Differential Factor Example 1	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		9.99999999	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.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
	Effective Coverage Level Percent	Internal		99.9999	None	
Round(Base Prior Year Rate Differential Factor + Prior Year Rate (Upper Bound Prior Year Rate Differential Factor - Differential Factor = Lower Bound Prior Year Rate Differential Factor) * (continued) (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 9)	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level.
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 calculati	ions for Unit R	esidual Factor	and Prior Year Unit R	esidual Factor:	
Round(Base Unit Residual Factor + (Upper Bound Unit	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
Unit Residual Factor = Residual Factor - Lower Bound Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)	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".

	Calculations	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
	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	
Unit Residual Factor (continued)		Lower Bound Unit Residual Factor	ADM		999.999	None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.
		Effective Coverage Level Percent	Internal		99.9999	None	
	Floored Effective Coverage Level Percent	Internal		99.9999	None	Based on the 'floored' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level Percent equals an existing ADM Coverage Level then this will be the Effective Coverage Level Percent. If the Effective Coverage Level Percent falls between existing ADM Coverage Levels then this will be the lower ADM Coverage Level. If the Effective Coverage Level Percent is greater than the maximum ADM Coverage Level then this will be the highest ADM Coverage Level Level.	

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

<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>
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)	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.
When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calcul	ations for Enterprise Unit Residual	Factor and Pri	or Year Enterp	rise Unit Residual Fac	tor:	
	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".
Round(Base Enterprise Unit Residual Factor + (Upper Bound Enterprise Unit Residual Factor - Lower Bound Enterprise Unit Residual Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 3)		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.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
	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	
Round(Base Enterprise Unit Residual Factor + (Upper Enterprise Unit Residual Bound Enterprise Unit Residual Factor - Lower Bound Factor = Enterprise Unit Residual Factor) * (Effective Coverage (continued) Level Percent - Floored 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 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 Level.
	Prior Year Enterprise Unit Residual Factor	Internal		999.999	Round to 3 decimal places.	The cap value for the Residual Factors is the MAX(Residual Factor) from all coverage levels within the chosen unit structure
	Base Enterprise Prior Year Unit Residual Factor	ADM		999.999	None	Base Enterprise Prior Year Unit Residual Factor is equal to Enterprise Prior Year Unit Residual for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Prior Year Enterprise Unit Residual Factor Residual Factor Residual Factor Residual Factor Residual Factor Residual Factor) * (Effective Coverage Leverage Lever	Unit Residual Factor Prise Unit Residual Par Enterprise Unit Parage Level Percent -	or 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 Enterprise Unit Residual Facto	or 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 Perce	ent Internal		99.9999	None	
Round(Base Enterprise Prior Year U + (Upper Bound Prior Year Enterprise Prior Year Enterprise Unit Residual Factor = Factor - Lower Bound Prior Year Enterprise Factor - Lower Bound Prior Year Enterprise Prior Year Enterprise Prior Year Upper Bound Prior Year Enterprise Prior Year	ise Unit Residual hterprise Unit age Level Percent - Floored Effective Coverage Lev	vel 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.

	<u>Calculations</u>	<u>Field</u> Name	<u>Record</u> Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
Section 14: Yield Cup, Yield	Exclusion, Quality Loss, and Trend APH Current Year Ba						rage level for the offer in the ADM).
		Unadjusted Liability Amount	Internal		999999999	Round to whole number	
Unadjusted Liability	Unadjusted Liability = Round((Coverage Level Percent/Effective Coverage Amount = Level Percent),10) * Premium Liability Amount	Coverage Level Percent	P14	34	9.9999	None	
Amount		Effective Coverage Level Percent	Internal		99.9999		
	Premium Liability Amount	Internal		999999999	Round to whole number		
		Max Coverage Level Adjustment Factor	Internal		9999999999999999	Round to 8 decimals.	
		Unadjusted Liability Amount	Internal		999999999	Round to whole number	
	When Unit Structure Code is equal to Optional Unit,	Current Year Base Rate	Internal		99999999999999	Round to 8 decimals.	
	"OU", "UA" &"UD:	Premium Liability Amount	Internal		999999999	Round to whole number	
	, , , , , , , , , , , , , , , , , , , ,	Base Rate Differential Factor	ADM		9.99999999	None	
	ROUND(1.00/ Current Year Base Rate,8) –	Base Unit Residual Factor	ADM		999.999	None	
Max Coverage Level Adjustment Factor	Max Coverage Level _ ROUND(Unadjusted Liability Amount/(Current Year	Unit Structure Discount Factor	ADM		9.999999999	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.
		Marginal Rate Adjustment Factor	Internal		9.99999999	Round to 8 decimals.	
	When Unit Structure Code is equal to Optional Unit,	Max Coverage Level Adjustment Factor	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
Max Coverage Level A Differential Factor * U	Clarate as Bissas at Factor's	Rate Differential Factor	ADM		9.999999999	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).
		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.

	<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>
	When Unit Structure code is Enterprise Unit, "EU": 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'.
Current Year Base	When Unit Structure Code is equal to Optional Unit, "OU", "UA", "UD", or Basic Unit, "BU":	Current Year Base Premium Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
Premium Rate	Premium Rate = Round(Current Year Base Rate * Rate Differential Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Adjustment Factor, 1.00)	Rate Differential Factor	ADM		9.999999999	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).
		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.	
	When Unit Structure code is Enterprise Unit, "EU": = 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'.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>
Section 15: Yield Cup, Quality Loss, Yield Exclusion and Trend APH for Cottonseed-ADM).	-Current Year Base Premium Rate (Calculations (or	lly use when t	the Effective Coverage	Level for the record exceeds	the highest coverage level for the offer in the
	Current Year Base Premium Rate	Internal		999999999999999999999999999999999999999	Round to 8 decimals.	
Round(Current Year Base Rate * Rate Differential Current Year Base Factor * Unit Residual Factor, 8) * MIN(Marginal Rate Premium Rate Adjustment Factor, 1.00)	Rate Differential Factor	ADM		9.999999999	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).
	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.
When Unit Structure Code is equal to Optional Unit, "OU", "UA", or "UD", use the	Adjustment Option (TA), Yield Cup following calculation for Unit Structure Unit Structure Discount Factor			9.99999999	Round to 4 decimal places.	Capped at 1.0
Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level	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".
Unit Structure Discount Factor Percent Optional Unit Discount Factor - Lower Bound Coverage Level Percent Optional Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)		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.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Unit Structure Discount Factor cont'd	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	
Unit Structure Discount Factor = (continued) Round(Base Coverage Level Percent Optional Unit Discount Factor + (Upper Bound Coverage Level Percent Optional Unit Discount Factor - Lower Bound Coverage Level Percent Optional Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	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.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> Rounding	<u>Rules</u>	
When Unit Structure Code is equal to Basic Unit, 'BU', use the following calculation for Unit Structure Discount Factor:							
	Unit Structure Discount Factor	Internal		9.99999999	Round to 4 decimal places.	Capped at 1.0	
Unit Structure Discount Factor Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound Coverage Level Percent Basic Unit Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	Base Coverage Level Percent Basic Unit Discount Factor	ADM		9.999999999	None	Base Coverage Level Percent Basic Unit Discount Factor is equal to Basic Unit Discount Factor for Minimum of 1) Maximum available Coverage Level or; 2) available Coverage Level less than or equal to Effective Coverage Level. Edit with ADM Coverage Level Differential, "A01040".	
	Upper Bound Coverage Level Percent Basic Unit Discount Factor	ADM		9.99999999	None	Based on the 'upper bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the higher ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the highest ADM Coverage Level.	
Unit Structure Discount Factor cont'd	Lower Bound Coverage Level Percent Basic Unit Discount Factor	ADM			None	Based on the 'lower bound' Coverage Level. Edit with ADM Coverage Level Differential, "A01040". If the Effective Coverage Level equals an existing ADM Coverage Level then this will be based on the Effective Coverage Level. If the Effective Coverage Level falls between existing ADM Coverage Levels then this will be based on the lower ADM Coverage Level. If the Effective Coverage Level is greater than the maximum ADM Coverage Level then this will be based on the second highest ADM Coverage Level.	
	Effective Coverage Level Percent	Internal		99.9999	None		

<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>
Round(Base Coverage Level Percent Basic Unit Discount Factor + (Upper Bound Coverage Level Percent Basic Unit Discount Factor - Lower Bound Coverage Level Percent Basic Unit Discount Factor) * (Effective Coverage Level Percent - Floored Effective Coverage Level Percent) * 20, 4)	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.
When Unit Structure Code is equal to Enterprise Unit, 'EU', use the following calcul	ation for Unit Structure Discount Fa	actor:				
	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 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		9.99999999		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	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.

<u>Calculations</u>	<u>Field</u> <u>Name</u>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	<u>Rules</u>
Discount Factor + (Upper Bound Coverage Level Unit Structure Discount = Percent Enterprise Unit Discount Factor - Lower Bound	Effective Coverage Level Percent	Internal		99.9999	None	
Factor (continued) Coverage Level Percent Enterprise Unit Discount Factor) * (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.