Exhibit Name: Indemnity Calculations	
Exhibit Number: P21-9, Plan 90	**Reinsurance Year:** 2024
Record Name: Acreage Claim	**Version:** Approved
Record Code: P21	**Release Date:** 7/1/2023

Insurance Plan Code	90 Actual Production History

Commodity Code

0012 Blueberries	0054 Apples	0132 Cucumbers	0235 Cigar Binder Tobacco
0013 Onions	0055 Culti Wild Rice	0147 Pumpkins	0236 Cigar Wrapper Tobacco
0017 Millet	0058 Cranberries	0156 Sweet Potatoes	0255 Banana
0019 Avocados	0059 Silage Sorghum	0158 Triticale	0256 Coffee
0022 Cotton Extra Long	0060 Figs	0201 Grapefruit	0257 Papaya
0023 Macadamia Nuts	0064 Green Peas	0202 Lemons	0309 Mandarins/Tangerines
0028 Almonds	0067 Dry Peas	0203 Tangelos	0333 Camelina
0029 Walnuts	0069 Mustard	0218 Fresh Apricots	0396 Sesame
0031 Flax	0072 Cabbage	0219 Processing Apricots	0470 Pistachios
0033 Forage Production	0074 Mint	0220 Fresh Nectarines	0501 Olives
0034 Peaches	0079 Clary Sage	0221 Processing Cling Peaches	1302 Tangors
0036 Prunes	0084 Potatoes	0222 Processing Freestone	1218 Hemp
0038 Sugar Cane	0086 Fresh Tomatoes	0223 Fresh Freestone Peaches	6000 Caneberries
0039 Sugar Beets	0087 Tomatoes	0227 Oranges	
0042 Sweet Corn	0089 Pears	0229 Flue Cured Tobacco	
0046 Processing Beans	0092 Fresh Plums	0230 Fire Cured Tobacco	
0047 Dry Beans	0102 Grass Seed	0231 Burley Tobacco	
0049 Safflower	0105 Fresh Market Beans	0232 Maryland Tobacco	
0052 Table Grapes	0107 Alfalfa Seed	0233 Dark Air Tobacco	
0053 Grapes	0114 Buckwheat	0234 Cigar Filler Tobacco	

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Stage Guarantee Calculation						
Without Acreage Limitation:						
Guarantee Per Acre1 = Approved Yield * Coverage Level Percent * Stage Percent Factor	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	
	Stage Percent Factor	P21	47	9.99	None	Edit with ICE Stage Factor, "D00069".

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Without Acreage Limitation for Onions, "0013", Sugar Beets, "0039", Tomatoes, "0086", and Texas Citrus, "0201" and "0227": Guarantee Per Acre1 = Round(Approved Yield * Coverage Level Percent, lbs to 0, ton to 2, all others to 1) * Stage Percent Factor	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.	
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Stage Percent Factor	P21	47	9.99	None	Edit with ICE Stage Factor, "D00069". Onions "0013", only, if stage code equal "1 or 2" percent will be submitted on P21 and verified with ICE Stage Factor, "D00069". If Commodity Code equals "0013" or "0039" and Insurance Option Code equals "NS" (Stage Removal Option) values from ICE D00069 will not be used and Stage Percent Factor will be defaulted to 1.00 as to not reduce the guarantee amount.
Cottonseed Endorsement Option "SE": Modified Yield = Approved Yield * Option Conversion Factor	Modified Yield	Internal		99999999.99	Round to whole number.	Information (Approved Yield and Insured Share Percent) will be obtained from Cotton P11 record.
	Approved Yield	P11	42	99999999.99	None	
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
Guarantee Per Acre1 = Modified Yield * Coverage Level Percent	Guarantee Per Acre1	Internal		99999999.99	Round to whole number.	
	Coverage Level Percent	P14	34	9.9999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
With Acreage Limitation - Onions, "0013" (when provided by Special Provisions) and Potatoes "0084"(Certified Seed): Guarantee Per Acre1 = Round(Approved Yield * Coverage Level Percent, lbs to 0, all others to 1) * Yield Conversion Factor * Stage Percent Factor	Guarantee Per Acre1	Internal		99999999.99	Round to 1 decimal.	
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	59	9.999	None	
	Stage Percent Factor	P21	47	9.99	None	Edit with ICE Stage Factor, "D00069". Onions "0013", only, if Stage Code equal "1" or "2" percent will be submitted on P21 and verified with ICE Stage Factor, "D00069". If Commodity Code equals "0013" and Insurance Option Code equals "NS" (Stage Removal Option) values from ICE D00069 will not be used and Stage Percent Factor will be defaulted to 1.00 as to not reduce the guarantee amount.
With Acreage Limitation - Cabbage (except processing), Camelina, Fresh Market Beans, Sweet Potatoes, Silage Sorghum, and Hawaii Tropical Fruit: Guarantee Per Acre1 = Round(Approved Yield * Coverage Level Percent, lbs to 0, tons to 2, all others to 1) * Yield Conversion Factor	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.	
	Approved Yield	P11	42	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	59	9.999	None	

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	Record Name: Acreage Claim	Version: Approved	
	Record Code: P21	Release Date: 7/1/2023	

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Acre Stage Guarantee Amount = Guarantee Per Acre1 * Guarantee Adjustment Factor	Acre Stage Guarantee Amount	P21	65	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 Stage Guarantee Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Guarantee Adjustment Factor	P11	69	9.999	None	
Section 2: Loss Guarantee Calculation						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	67	99999999.99	When Unit of Measure equals Barrels or Tons then round to 1 decimal. Otherwise, round to whole number.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	
For Mustard,"0069":	Loss Guarantee Amount	P21	67	99999999.99	Round to whole number.	
Loss Guarantee Amount = (Lesser of "Determined Pounds or Round (Acre Stage Guarantee Amount * Determined Acreage, 0)) * Liability Adjustment Factor	Determined Pounds	P21	20	9999999999	None	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 3: Indemnity Calculation						
Unit Deficiency Quantity = Loss Guarantee Amount – Production to Count Quantity	Unit Deficiency Quantity	P21	66	S99999999.99	Round to 1 decimal	
	Production to Count Quantity	P21	34	99999999.99	None	If Commodity Code equals Cucumbers, "0132", the 'value of production to count' will be divided by price election to arrive at a 'bushel' production to count that will be reported in this field.
Preliminary Indemnity Amount = Unit Deficiency Quantity * Price Election Amount * Stage Price Percent Factor * Insured Share Percent	Preliminary Indemnity Amount	P21	69	S9999999999	Round to whole number.	
	Price Election Amount	P11	45	99999.9999	None	
	Stage Price Percent Factor	ICE		999.99	None	Edit with ICE Stage Factor, "D00069". Stage Price Percent Factor for Potatoes, "0084" will not apply if Stage Code is "C" or "NC". Only Stage Codes "P, C, and NC" applicable if Insurance Option Code List "CL" or "CH".
	Insured Share Percent	P11	43	9.9999	None	
For Grapes "0053" : **When Stage Code is Unharvested, "UH":** = Unit Deficiency Quantity * (Price Election Amount - Harvest Cost Amount) * Insured Share Percent	Preliminary Indemnity Amount	P21	69	9999999999	Round to whole number.	
	Price Election Amount	P11	45	99999.9999	None	
Preliminary Indemnity Amount **When Stage Code is Unharvested- Machine Harvested, "UM":** = Unit Deficiency Quantity * (Price Election Amount - Harvest Cost Amount Machine) * Insured Share Percent	Harvest Cost Amount	ADM		99999.9999	None	Edit with ADM Price A00810.
	Harvest Cost Amount Machine	ADM		99999.9999	None	Edit with ADM Price A00810.
When Stage Code is Unharvested- Hand Harvested, "UN": = Unit Deficiency Quantity * (Price Election Amount - Harvest Cost Amount Hand) * Insured Share Percent	Harvest Cost Amount Hand	ADM		99999.9999	None	Edit with ADM Price A00810.
	Insured Share Percent	P11	43	9.9999	None	
For Camelina,"0333":	Indemnity Amount	P21	13	S9999999999	Round to whole number.	
Indemnity Amount = MAX(0, ROUND(Preliminary Indemnity - Minimum Payment Amount, 0)	Minimum Payment Amount	P21	62	99999.9999	None	If Minimum Payment is NULL then Indemnity Amount = Preliminary Indemnity

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 4: Replant Payment Guarantee Calculation						
When Stage Code equals: **Replanted, "R",** **Replanted Seed, "RS",** **Replanted Transplant, "RT"** Guarantee per Acre1 = 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	
Guarantee Per Acre2 = Round(Guarantee Per Acre1 * Yield Conversion Factor, lbs to 0, tons to 2, all other 1) * Guarantee Adjustment Factor	Guarantee Per Acre2	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 Acre2 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	
	Guarantee Adjustment Factor	P11	69	0.999	None	

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Commodity Code <u>not</u> equal to Sugar Beets, "0039", Cabbage, "0072" or Cucumber, "0132": AIP Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost Or	AIP Acre Stage Guarantee Amount	P21	36	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.	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field. AIP Acre Stage Guarantee Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
Guarantee Per Acre2 * 0.20 (0.10 for Dry Beans, 0.07 for Onions, 0.25 for Calif. Tomatoes)	Insured's Actual Cost	Internal		99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Or	Guarantee Per Acre2	Internal		99999999.99		
Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
For Cabbage, "0072": AIP Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost Or	AIP Acre Stage Guarantee Amount	P21	36	99999999.99	Round to 1 decimal.	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field.
	Insured's Actual Cost	Internal		99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
For Sugar Beets, "0039": AIP Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost Or	AIP Acre Stage Guarantee Amount	P21	36	99999999.99	Round to nearest dollar and cents.	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field.
	Insured's Actual Cost	Internal		99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
For Cucumbers, "0132":	AIP Acre Stage Guarantee Amount	P21	36	99999999.99	Round to 1 decimal.	
AIP Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost Or	Insured's Actual Cost	Internal		99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
$\text{Round(Guarantee Per Acre2} * 0.20,1)$ Or	Guarantee Per Acre2	Internal		99999999.99		
Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
Section 5: Replant Payment Loss Guarantee Calculation						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	67	99999999.99	When Unit of Measure equals Barrels or Tons, then round to 1 decimal. Sugar Beets will be rounded to nearest dollar and cents. Otherwise, round to whole number.	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	39	9.999999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 6: Replant Payment Indemnity Calculation						
Indemnity Amount = $\frac{\text{Loss Guarantee Amount * Price Election Amount *}}{\text{Insured Share Percent}}$	Indemnity Amount	P21	70	S9999999999	Round to whole number.	
	Price Election Amount	P11	45	99999.9999	None	
	Insured Share Percent	P11	43	9.9999	None	
For Sugarbeets, "0039":	Indemnity Amount	P21	70	S9999999999	Round to whole number.	
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Insured Share Percent	P11	43	9.9999	None	
Section 7: Replacement Payment Loss Guarantee Calculation for Sugarcane, "0038"						
When Stage Code equals: **Plant Cane Current Year, "PC"; Plant Cane Subsequent Year, "PS"; Plant Cane Not Replaced, "PD"; First Year Stubble Current Year, "SC"; First Year Stubble Subsequent Year, "SS"; First Year Stubble Not Replaced, "SD"**	Loss Guarantee Amount	P21	67	99999999.99	Round to whole number.	
	Base Payment Amount	Internal		99999999.99	None	Base Payment Amount for the area.
	Coverage Level Percent	P14	34	9.9999	None	
	Insured Share Percent	P11	43	9.9999	None	
	Determined Acreage	P21	18	99999999.99	None	
Loss Guarantee Amount = Base Payment Amount * Coverage Level Percent * Insured Share Percent * Determined Acres * Depreciation Factor * Liability Adjustment Factor	Depreciation Factor	Internal		9.999	None	Depreciation Factor by Stage Code, ICE D00069. If "Insurance Option Code List" equals "RD" then Depreciation Factor will equal 1.000.
	Liability Adjustment Factor	P21	39	9.999999	None	
Section 8: Replacement Payment Indemnity Calculation for Sugarcane, "0038"						
	Indemnity Amount	P21	70	S9999999999	Round to whole number.	
Indemnity Amount = AIP Indemnity Amount	AIP Indemnity Amount	P21	13	S9999999999	Round to whole number.	AIP Indemnity Amount cannot exceed Loss Guarantee Amount.