Exhibit Name: Indemnity Calculations
Exhibit Number: P21-9, Plan 90
Record Name: Acreage Claim
Record Code: P21

Reinsurance Year: 2014
Version: Approved
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Insurance Plan Code **90 Actual Production History**

Commodity Code

0012 Blueberries	0053 Grapes	0107 Alfalfa Seed	0230 Fire Cured Tobacco
0013 Onions	0054 Apples	0114 Buckwheat	0231 Burley Tobacco
0016 Oats	0055 Culti Wild Rice	0132 Cucumbers	0232 Maryland Tobacco
0017 Millet	0058 Cranberries	0147 Pumpkins	0233 Dark Air Tobacco
0019 Avocados	0059 Silage Sorghum	0156 Sweet Potatoes	0234 Cigar Filler Tobacco
0022 Cotton Extra Long	0060 Figs	0201 Grapefruit	0235 Cigar Bindr Tobacco
0023 Macadamia Nuts	0064 Green Peas	0202 Lemons	0236 Cigar Wrapper Tobacco
0028 Almonds	0067 Dry Peas	0203 Tangelos	0238 Rio Red & Star Ruby
0029 Walnuts	0069 Mustard	0218 Fresh Apricots	0255 Banana
0031 Flax	0072 Cabbage	0219 Processing Apricots	0256 Coffee
0033 Forage Production	0074 Mint	0220 Fresh Nectarines	0257 Papaya
0034 Peaches	0075 Peanuts	0221Processing Cling Peaches	0309 Mandarins/Tangerines
0036 Prunes	0084 Potatoes	0222 Processing Freestone	0333 Camelina
0038 Sugar Cane	0086 Fresh Tomatoes	0223 Fresh Freestone Peaches	0396 Sesame
0039 Sugar Beets	0087 Tomatoes	0224 Early & Midseason Oranges	0470 Pistachios
0042 Sweet Corn	0089 Pears	0225 Late Oranges	0501 Olives
0046 Canning Beans	0092 Fresh Plums	0226 All Other Grapefruit	
0047 Dry Beans	0094 Rye	0227 Oranges	
0049 Safflower	0102 Grass Seed	0228 Ruby Red Grapefruit	
0052 Table Grapes	0105 Fresh Market Beans	0229 Flue Cured Tobacco	

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Stage Guarantee Calculation						
Without Acreage Limitation:	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).

Guarantee Per Acre1 = Approved Yield * Coverage Level Percent * Stage Percent Factor	Approved Yield	P11	43	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	Internal		99999999.99	Round to whole number.	Information (Approved Yield and Insured Share Percent) will be obtained from Cotton P11 record.
Modified Yield = Approved Yield * Option Conversion Factor	Approved Yield	P11	43	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	
With Acreage Limitation - Onions (when provided by Special Provisions) and Potatoes (Certified Seed):	Guarantee Per Acre1	Internal		99999999.99	Round to 1 decimal.	
	Approved Yield	P11	43	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	60	9.999	None	
Guarantee Per Acre1 = Round(Approved Yield * Coverage Level Percent, lbs to 0, all others to 1) * Yield Conversion Factor * Stage Percent Factor	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.

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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	43	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	60	9.999	None	
Acre Stage Guarantee Amount = Guarantee Per Acre1 * Guarantee Adjustment Factor	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.	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	72	0.999	None	
Section 2: Loss Guarantee Calculation						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	57	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 (commodity 0069):	Loss Guarantee Amount	P21	57	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	56	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	59	S9999999999	Round to whole number.	
	Price Election Amount	P11	46	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	44	9.999	None	
For Grapes (commodity 0053) with Stage Code, "UH" (unharvested):	Preliminary Indemnity Amount	P21	59	S9999999999	Round to whole number.	
Preliminary Indemnity Amount = Unit Deficiency Quantity * (Price Election Amount - Harvest Cost Amount) * Insured Share Percent	Price Election Amount	P11	46	99999.9999	None	
	Harvest Cost Amount	ADM		99999.9999	None	Edit with ADM Price A00810.
	Insured Share Percent	P11	44	9.999	None	
Indemnity Amount = Preliminary Indemnity Amount * Multiple Commodity Adjustment Factor	Indemnity Amount	P21	60	S9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".

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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	43	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	60	9.999	None	
	Guarantee Adjustment Factor	P11	72	0.999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Commodity Code not equal to Peanuts, "0075", Sugar Beets, "0039" or Cabbage, "0072":						
Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost Or Guarantee Per Acre2 * 0.20 (0.10 for Dry Beans, 0.07 for Onions, 0.25 for Calif. Tomatoes) Or Maximum Replant Guarantee Per Acre	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	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field. Acre Stage Guarantee Amount should be rounded to whole pounds for Dry Beans, "0047" (all types), and Dry Peas, "0067" (all types).
	Insured's Actual Cost	P21	36	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
	Guarantee Per Acre2	Internal		99999999.99		
	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
Commodity Code equals Peanuts "0075":						
Acre Stage Guarantee Amount = Lesser of: Round(Guarantee Per Acre2 * 0.20,0) * (Price Election Amount or Weighted Average Price) Or Maximum Replant Guarantee Per Acre	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.
	Guarantee Per Acre2	Internal		99999999.99		
	Price Election Amount	P11	46	99999.9999	None	
	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
Commodity Code equals Cabbage, "0072":						
Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost	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.
Acre Stage Guarantee Amount = Or	Insured's Actual Cost	P21	36	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Acre Stage Guarantee Amount = Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
Commodity Code equals Sugar Beets, "0039":						
Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost	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.
Acre Stage Guarantee Amount = Or	Insured's Actual Cost	P21	36	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Acre Stage Guarantee Amount = Maximum Replant Guarantee Per Acre	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
Commodity Code equals Cucumbers, "0132":	Acre Stage Guarantee Amount	P21	36	99999999.99	Round to 1 decimal.	
Acre Stage Guarantee Amount = Lesser of: Insured's Actual Cost	Insured's Actual Cost	P21	36	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
Acre Stage Guarantee Amount = Or Round(Guarantee Per Acre2 * 0.20,1)	Guarantee Per Acre2	Internal		99999999.99		
Acre Stage Guarantee Amount = Or 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	57	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 = Loss Guarantee Amount * Price Election Amount * Insured Share Percent	Indemnity Amount	P21	60	S9999999999	Round to whole number.	
	Price Election Amount	P11	46	99999.9999	None	
	Insured Share Percent	P11	44	9.999	None	
Commodity Code equals Peanuts, "0075" or Sugar Beets, "0039":	Indemnity Amount	P21	60	S9999999999	Round to whole number.	
Indemnity Amount = Loss Guarantee Amount * Insured Share Percent	Insured Share Percent	P11	44	9.999	None	If Commodity Code equals Peanuts, "0075", the P21 AIP Acreage Key should reference the P11 contract liability record for obtaining Insured Share Percent.