

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

Reinsurance Year: 2013  
 Version: Approved  
 Release Date: 12/18/2017

**Insurance Plan Code** **90 Actual Production History**

<b>Commodity Code</b>	0012 Blueberries	0053 Grapes	0107 Alfalfa Seed	0228 Ruby Red Grapefruit
	0013 Onions	0054 Apples	0114 Buckwheat	0229 Flue Cured Tobacco
	0016 Oats	0055 Culti Wild Rice	0147 Pumpkins	0230 Fire Cured Tobacco
	0017 Millet	0058 Cranberries	0156 Sweet Potatoes	0231 Burley Tobacco
	0019 Avocados	0059 Silage Sorghum	0201 Grapefruit	0232 Maryland Tobacco
	0022 Cotton Extra Long	0060 Figs	0202 Lemons	0233 Dark Air Tobacco
	0023 Macadamia Nuts	0064 Green Peas	0205 Mandarins	0234 Cigar Filler Tobacco
	0028 Almonds	0067 Dry Peas	0206 Minnelo Tangelos	0235 Cigar Bindr Tobacco
	0029 Walnuts	0069 Mustard	0215 Navel Oranges	0236 Cigar Wrapper Tobacco
	0031 Flax	0072 Cabbage	0216 Sweet Oranges	0237 Orlando Tangelos
	0033 Forage Production	0074 Mint	0217 Valencia Oranges	0238 Rio Red & Star Ruby
	0034 Peaches	0075 Peanuts	0218 Fresh Apricots	0255 Banana
	0036 Prunes	0084 Potatoes	0219 Processing Apricots	0256 Coffee
	0038 Sugar Cane	0086 Fresh Tomatoes	0220 Fresh Nectarines	0257 Papaya
	0039 Sugar Beets	0087 Tomatoes	0221 Processing Cling Peaches	0333 Camelina
	0042 Sweet Corn	0089 Pears	0222 Processing Freestone	0396 Sesame
	0046 Canning Beans	0092 Fresh Plums	0223 Fresh Freestone Peaches	0470 Pistachios
	0047 Dry Beans	0094 Rye	0224 Early & Midseason Oranges	0501 Olives
	0049 Safflower	0102 Grass Seed	0225 Late Oranges	
	0052 Table Grapes	0105 Fresh Market Beans	0226 All Other Grapefruit	

<u>Calculations</u>	<u>Field Name</u>	<u>Record Number</u>	<u>Field Number</u>	<u>Field Format</u>	<u>Field Rounding</u>	<u>Rules</u>
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**Section 1: Stage Guarantee Calculation**

<b>Without Acreage Limitation:</b>	Guarantee Per Acre1			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).
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<p>Guarantee Per Acre1 = <math>\frac{\text{Approved Yield} * \text{Coverage Level Percent} * \text{Stage Percent Factor}}{\text{Percent Factor}}</math></p>	Approved Yield	P11	45	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Stage Percent Factor	P21	48	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.
<p><b>Cottonseed Endorsement Option "SE":</b></p> <p>Modified Yield = <math>\text{Approved Yield} * \text{Option Conversion Factor}</math></p>	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	45	99999999.99	None	
	Option Conversion Factor	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".
<p>Guarantee Per Acre1 = <math>\text{Modified Yield} * \text{Coverage Level Percent}</math></p>	Guarantee Per Acre1	Internal		99999999.99	Round to whole number.	
	Coverage Level Percent	P14	34	9.9999	None	
<p><b>With Acreage Limitation - Onions (when provided by Special Provisions) and Potatoes (Certified Seed):</b></p> <p>Guarantee Per Acre1 = <math>\text{Round}(\text{Approved Yield} * \text{Coverage Level Percent, lbs to 0, all others to 1}) * \text{Yield Conversion Factor} * \text{Stage Percent Factor}</math></p>	Guarantee Per Acre1	Internal		99999999.99	Round to 1 decimal.	
	Approved Yield	P11	45	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	62	9.999	None	
	Stage Percent Factor	P21	48	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
<b>With Acreage Limitation - Cabbage (except processing), Camelina, Fresh Market Beans, Sweet Potatoes, Silage Sorghum, and Hawaii Tropical Fruit:</b>  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	45	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
	Yield Conversion Factor	P11	62	9.999	None	
Acre Stage Guarantee Amount = Guarantee Per Acre1 * Guarantee Adjustment Factor	Acre Stage Guarantee Amount	P21	37	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	74	0.999	None	
<b>Section 2: Loss Guarantee Calculation</b>						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	51	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	40	9.999999	None	
<b>For Mustard (commodity 0069):</b>  Loss Guarantee Amount = Round (Lesser of "Determined Pounds or (Acre Stage Guarantee Amount * Determined Acreage, 0)) * Liability Adjustment Factor	Loss Guarantee Amount	P21	51	99999999.99	Round to whole number.	
	Determined Pounds	P21	21	9999999999	None	
	Determined Acreage	P21	18	99999999.99	None	
	Liability Adjustment Factor	P21	40	9.999999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
<b>Section 3: Indemnity Calculation</b>						
Unit Deficiency Quantity = Loss Guarantee Amount – Production to Count Quantity	Unit Deficiency Quantity	P21	50	S99999999.99	Round to 1 decimal	
	Production to Count Quantity	P21	35	99999999.99	None	
$\text{Preliminary Indemnity Amount} = \frac{\text{Unit Deficiency Quantity} * \text{Price Election Amount} * \text{Stage Price Percent Factor} * \text{Insured Share Percent}}{\text{Stage Price Percent Factor} * \text{Insured Share Percent}}$	Preliminary Indemnity Amount	P21	53	S9999999999	Round to whole number.	
	Price Election Amount	P11	48	99999.9999	None	
	Stage Price Percent Factor	ICE		999.99	None	Edit with ICE Stage Factor, "D00069".
	Insured Share Percent	P11	46	9.999	None	
<b>For Grapes (commodity 0053) with Stage Code, "UH" (unharvested):</b>  $\text{Preliminary Indemnity Amount} = \frac{\text{Unit Deficiency Quantity} * (\text{Price Election Amount} - \text{Harvest Cost}) * \text{Insured Share Percent}}{\text{Harvest Cost} * \text{Insured Share Percent}}$	Preliminary Indemnity Amount	P21	53	S9999999999	Round to whole number.	
	Price Election Amount	P11	48	99999.9999	None	
	Harvest Cost	ICE		99999.9999	None	Edit with ICE Stage Factor, "D00069".
	Insured Share Percent	P11	46	9.999	None	
$\text{Indemnity Amount} = \frac{\text{Preliminary Indemnity Amount} * \text{Multiple Commodity Adjustment Factor}}{\text{Multiple Commodity Adjustment Factor}}$	Indemnity Amount	P21	54	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
<b>Section 4: Replant Payment Guarantee Calculation</b>						
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	45	99999999.99	None	
	Coverage Level Percent	P14	34	9.9999	None	
Round(Guarantee Per Acre1 * Yield Conversion Factor, Guarantee Per Acre2 = 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	62	9.999	None	
	Guarantee Adjustment Factor	P11	74	0.999	None	

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
<b>Commodity Code not equal to Peanuts, "0075", Sugar Beets, "0039" or Cabbage, "0072":</b>  Lesser of:  Insured's Actual Cost  = Or Acre Stage Guarantee Amount 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	37	99999999.99	When Unit of Measure equals Pounds, "LBS", then round to whole number.	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field.
	Insured's Actual Cost	P21	37	99999999.99	When Unit of Measure equals Tons, "Tons", then round to 2 decimals.  Otherwise, round to 1	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	37	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".
<b>Commodity Code equals Peanuts "0075":</b>  Lesser of: Acre Stage Guarantee = Amount 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	37	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	48	99999.9999	None	
	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".

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<b>Commodity Code equals Cabbage, "0072":</b> Lesser of: Insured's Actual Cost  Acre Stage Guarantee Amount = Or  Maximum Replant Guarantee Per Acre	Acre Stage Guarantee Amount	P21	37	99999999.99	Round to 1 decimal.	The 'lesser of' amount will be submitted in the AIP Acre Stage Guarantee field.
	Insured's Actual Cost	P21	37	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
<b>Commodity Code equals Sugar Beets, "0039":</b> Lesser of: Acre Stage Guarantee = Insured's Actual Cost Amount Or Maximum Replant Guarantee Per Acre	Acre Stage Guarantee Amount	P21	37	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	P21	37	99999999.99		Insured's Actual Cost will be submitted in AIP Acre Stage Guarantee Amount field if lesser of.
	Maximum Replant Guarantee Per Acre	ICE				Edit with ICE "D00129".
<b>Section 5: Replant Payment Loss Guarantee Calculation</b>						
Loss Guarantee Amount = Acre Stage Guarantee Amount * Determined Acreage * Liability Adjustment Factor	Loss Guarantee Amount	P21	51	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	40	9.999999	None	

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<b>Section 6: Replant Payment Indemnity Calculation</b>						
Indemnity Amount = $\frac{\text{Loss Guarantee Amount} * \text{Price Election Amount}}{\text{Insured Share Percent}}$	Indemnity Amount	P21	54	S9999999999	Round to whole number.	
	Price Election Amount	P11		99999.9999	None	
	Insured Share Percent	P11	46	9.999	None	
<b>Commodity Code equals Peanuts, "0075" or Sugar Beets, "0039":</b>  Indemnity Amount = $\text{Loss Guarantee Amount} * \text{Insured Share Percent}$	Indemnity Amount	P21	54	S9999999999	Round to whole number.	
	Insured Share Percent	P11	46	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.