Exhibit Name: Premium Calculation					
Exhibit Number: P13-1, Plan 43			**Reinsurance Year:** 2013		
Record Name: Inventory Value			**Version:** Approved		
Record Code: P13			**Release Date:** 12/18/2017		

Insurance Plan Code	43 Aquaculture Dollar
Commodity Code	0116 Cultivated Clams

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Liability Calculation						
	Inventory Value Amount	Internal		999999999	Round to whole number	This will be determined internally for Clams.
	Reported Clam Count	P13	42	99999999	None	
Inventory Value Amount = Reported Clam Count * Survival Percent * (Reference Maximum Dollar Amount * Growth Stage Factor)	Survival Percent	ADM		9.999	None	Edit With ADM Price, "A00810".
	Reference Maximum Dollar Amount	ADM		9999.9999	None	If Coverage Type equals Catastrophic, "CAT" then Catastrophic Dollar Amount will be used instead of Reference Maximum Dollar Amount. Edit With ADM Price, "A00810".
	Growth Stage Factor	ADM		9999.9999	None	Edit With ADM Price, "A00810".
Liability Amount = Inventory Value Amount * Coverage Level Percent * Insured Share Percent	Liability Amount	P13	51	9999999999	Round to whole number	
	Coverage Level Percent	P14	34	9.9999	None	
	Insured Share Percent	P13	26	9.9999	None	
Section 2: Base Premium Rate Calculation						
	Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Base Premium Rate = Base Rate * Rate Differential Factor	Base Rate	ADM		999.9999	None	Edit with ADM Base Rate, "A01010".
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Section 3: Optional Coverage Calculation						
	Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
Additive Optional Rate Adjustment Factor = **When Rate Method Code is Additive, "A":** $\sum$ Option Rate * Rate Differential Factor	Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060".
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Multiplicative Optional Rate Adjustment Factor = **When Rate Method Code is Multiplicative, "M":** $\sum$ Option Rate1 * Option Rate2 * Option Rate3...	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

Exhibit Name: Premium Calculation					
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Calculations	**Field Name**	**Record Number**	**Field Number**	**Field Format**	**Field Rounding**	**Rules**
Section 4: Premium Rate Calculation						The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.
	Premium Rate	Internal		9999999999.99999999	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.
Section 5: Total Premium, Subsidy, and Producer Premium Calculation						
Total Premium Amount = Liability Amount * Premium Rate * Proration Percent	Total Premium Amount	P13	49	9999999999	Round to whole number	
	Proration Percent	ADM		9.99	None	Edit with ADM Proration, "A01070".
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P13	50	9999999999	Round to whole number	
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P13	52	9999999999	Round to whole number	
Section 6: Commodity Year Deductible Amount Calculation						This information will be based on the 'basic unit'.
Commodity Year Deductible Amount = Inventory Value Amount * (1 - Coverage Level Percent)	Commodity Year Deductible Amount	Internal		999999999	Round to whole number	
	Inventory Value Amount	Internal		999999999	Round to whole number	Sum the Inventory Values for the basic unit.
	Coverage Level Percent	P14	34	9.9999	None	