Exhibit Name: Premium Calculation Exhibit Number: P19-1 Plan 76

Record Name: WFRP Farm Reports

Reinsurance Year: 2016 Version: Approved Release Date: 12/6/2018

Record Code: P19

ance Plan Code 76 Whole Farm Revenue Protection (WFRP)							
Commodity Code 0076 Whole Farm Revenue Protection (WFRP)							
<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>	
Section 1: Liability Calculation						If Native Sod (NS) applies to any commodit under WFRP, see Section 9 for Liability calculations.	
Liability Amount = Approved Revenue Amount * Coverage Level Percent	Liability Amount	P19	71	999999999	Round to whole number.	Liability Amount is 'Insured Revenue'. Liabil Amount Cap, cannot exceed \$8.5 million for WFRP. Liability Amount must be set to \$1.0 when less than \$1.00.	
	Approved Revenue Amount	P19	69	9999.9999	None		
	Coverage Level Percent	P14	34	9.999	None		
MAX MPCI = Liability Amount / 2	MAX MPCI	Internal		999999999	Round to whole number.		
Premium Liability Amount = Liability Amount - lesser of: (MPCI Liability Amount or	Premium Liability Amount	Internal		999999999	Round to whole number.	Premium Liability must be set to \$1.00 when less than \$1.00.	
MAX MPCI)	MPCI Liability Amount	P19	33	999999999	None		
Section 2: Total Weighted Farm Rate Calculation							
Percent of Revenue = Expected Revenue Amount / Total Expected Revenue Amount	Percent of Revenue	Internal		9.999	Round to 3 decimals.		
	Expected Revenue Amount	P19A	15 or 23	9999999999	None	Summed per commodity if more then one Expected Revenue Amount for a commodity code due to Native Sod.	
	Total Expected Revenue Amount	P19	68	999999999	None		
Weighted Commodity = Commodity Rate * Percent of Revenue Rate	Weighted Commodity Rate	Internal		99.999	Round to 3 decimals.		
	Commodity Rate	Internal		999999.9999	None	Edit with ADM AGR Rate, "A01000" base rat	
Total Weighted Farm Rate = sum of Weighted Commodity Rate	Total Weighted Farm Rate	P19	90	99.999	Round to 3 decimals.		
Section 3: Diversty Factor (DF) Calculation							
	Commodity Factor	Internal		9.999	Round to 3 decimals.		
Commodity Factor = 1.00 / Qualifying Commodity Count	Qualifying Commodity Count	P19	94	999	None	Combined total of eligible commodity count and grouped commodity count. See Exhibit 7.	
For each Eligible Commodity (not grouped):							
Commodity Deviation = Round(ABS((Expected Revenue Amount/Total Expected Revenue Amount) - Commodity Factor),3)	Commodity Deviation	Internal		9.999	Round to 3 decimals.		

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	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	<u>Rules</u>		
If Grouped Commodity Cou	int > 0:	Commodity Deviation	Internal		9.999	Round to 3 decimals.			
Commodity Deviation Round(ABS((MQA/Total Expected Revenue Amount)  "Absolute Value" - Commodity Factor),3) * Grouped Commodity Count	Round(ABS((MQA/Total Expected Revenue Amount)	MQA	Internal		999999999	None	See Exhibit P14-7.		
	Grouped Commodity Count	P19	93	999	None	See Exhibit P14-7.			
Sum of Commodity Deviation (DEV) Factors	sum of all Commodity Deviations	Sum of Commodity Deviation Factors	Internal		9.999	Round to 3 decimals.	"DEV" will be used in determination of Diversity Factor (DF).		
	2 Commodities	DF = 0.668 + (0.0179999 * DEV							
	3 Commodities	DF = 0.523 + (0.0607623 * DEV							
	4 Commodities	DF = $0.474 + (0.0248208 * DEV) + (0.2184720 * DEV^2)$ DF = $0.437 + (0.0710358 * DEV) + (0.1760129 * DEV^2)$ DF = $0.412 + (0.0325131 * DEV) + (0.1945816 * DEV^2)$							
	5 Commodities								
	6 Commodities								
	7 Commodities or more	DF = 0.410							
Diversity Factor (DF) =	= See above	Diversity Factor	P19	95	9.999	Round to 3 decimals.			
Section 4: Optional Covera	ge Calculation								
Additive Optional Rate = Adjustment Factor		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.			
	When Rate Method Code is Additive, "A":	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	When Rate Method Code is Multiplicative, "M":	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.			
Rate Adjustment Factor	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".		
Section 5: Premium Rate C	alculation								
Premium Rate =	Diversity Factor * Total Weighted Farm Rate * = Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Premium Rate	P19	96	.999	Round to 3 decimals.	Premium Rate is capped at 0.999.		
Section 6: Total Premium,	If Beginning Farmer and Rancher (BFR) applies see Section 8. If Native Sod (NS) applies see Section 10. If both BFR and NS applies see Section 10.								
Preliminary Total = Premium Amount	Premium Liability Amount * Premium Rate	Preliminary Total Premium Amount	Internal		999999999	Round to whole number			
1/2 <b>8/2018</b> remium Amount =	Preliminary Total Premium Amount	Total Premium Amount	Page <b>1º1₀</b> 95	72	999999999	Round to whole number	Total Premium Amount must be set to \$1.00 when less than \$1.00.		

Exhibit Name: Premium Calculation Exhibit Number: P19-1 Plan 76 Record Name: WFRP Farm Reports

Record Code: P19

Reinsurance Year: 2016 Version: Approved

Release Date: 12/6/2018 Field Field Field Record Field Calculations Number Rounding Name Number **Format** Rules Subsidy Amount must be set to \$1.00 when less Subsidy Amount P19 73 999999999 Round to whole number than \$1.00. Subsidy Amount = Total Premium Amount \* Subsidy Percent Edit with ADM Subsidy Percent, "A00070". Subsidy Percent ADM 9.999 None Subsidy Percent will be based on Coverage Level Percent and Qualifying Commodity Count. Producer Premium Amount - Subsidy Amount - Amount - Subsidy Amount Producer Premium Amount P19 74 999999999 Round to whole number Section 7: A&O Expense Subsidy Calculation **A&O Expense Subsidy Amount** P19 77 999999999.99 A&O Expense Subsidy Percent Internal None If Native Sod (NS) applies along with BFR see Section 8: Beginning Farmer and Rancher (BFR) and Conservation Compliance (CC) Subsidy and Producer Premium Calculation Section 10. Preliminary Total Premium Amount Premium Rate Preliminary Total Premium Internal 999999999 Round to whole number Amount Total Premium Amount must be set to \$1.00 **Total Premium Amount** P19 Total Premium Amount = Preliminary Total Premium Amount 72 999999999 Round to whole number when less than \$1.00. Base Subsidy Amount Internal 999999999 Round to whole number Cupped by the standard rule of \$1 if applicable. Base Subsidy Amount = Total Premium Amount \* Subsidy Percent Edit with ADM Subsidy Percent, "A00070". Subsidy Percent will be based on Coverage Subsidy Percent ADM 9.999 None Level Percent and Qualifying Commodity Count. Beginning Farmer Rancher Subsidy Amount. BFR Subsidy Amount = Total Premium Amount \* 0.10 \* (1 - CC Subsidy Reduction Amount BFR Subsidy Amount P19 104 999999999 Round to whole number If Applicable; else 0. 0.10 (10%) CC Subsidy Reduction Percent P19 54 9.999 If Applicable; else 0. None CC Subsidy Reduction Amount = Base Subsidy Amount \* CC Subsidy Reduction Percent CC Subsidy Reduction Amount. 107 999999999 CC Subsidy Reduction Amount P19 Round to whole number If Applicable; else 0. Subsidy Amount = Base Subsidy Amount + BFR Subsidy Amount - CC Subsidy Reduction Amount Subsidy Amount cannot exceed Total Premium Subsidy Amount P19 73 999999999 Round to whole number Amount. Subsidy Amount will be cupped at \$0. Producer Premium Amount - Subsidy Amount - Amount - Subsidy Amount Producer Premium Amount P19 74 999999999 Round to whole number Section 9: Native Sod (NS) Liability Calculation Insured Revenue cannot exceed \$8.5 million for Internal 999999999 Insured Revenue Amount Round to whole number. WFRP. Insured Revenue Amount = Approved Revenue Amount \* Coverage Level Percent Approved Revenue Amount 69 9999.9999 None P19

Coverage Level Percent

P14

34

9.999

None

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Native Sod Percent of Expected Revenue Amount (Native Sod) / Total Revenue Expected Revenue Amount	Native Sod Percent of Revenue	P19	97	9.999	Round to 3 decimals.	
	Expected Revenue Amount	P19A	15 or 23	9999999999	None	Only the Expected Revenue Amount for Native Sod. Summed P19A Expected Revenue Amount if more then one commodity with Native Sod.
	Total Expected Revenue Amount	P19	68	999999999	None	
Native Sod Liability Amount = Insured Revenue Amount * Native Sod Percent of Revenue * 0.65	Native Sod Liability Amount	P19	98	9999999999	Round to whole number.	
Non Native Sod Liability Amount = Insured Revenue Amount * (1.000 - Native Sod Percent of Revenue)	Non Native Sod Liability Amount	P19	99	999999999	Round to whole number.	
Liability Amount = Native Sod Liability Amount + Non Native Sod Liability Amount	Liability Amount	P19	71	999999999	Round to whole number.	Liability Amount Cap, cannot exceed \$8.5 million for WFRP. If Native Sod does not apply then Liability Amount will equal Insured Revenue Amount. Liability Amount must be set to \$1.00 when less than \$1.00.
MAX MPCI = Liability Amount / 2	MAX MPCI	Internal		999999999	Round to whole number.	
Base Premium Liability = Liability Amount - lesser of: (MPCI Liability Amount or Amount = MAX MPCI)	Base Premium Liability Amount	Internal		999999999	Round to whole number	Base Premium Liability Amount must be set to \$1.00 when less than \$1.00.
	MPCI Liability Amount	P19	33	999999999	None	
Native Sod Premium = Round(Native Sod Liability Amount / Liability Amount, Liability Amount = 3) * Base Premium Liability Amount	Native Sod Premium Liability Amount	P19	100	999999999	Round to whole number	
Non Native Sod Premium Liability Amount - Native Sod Premium Liability Amount - Native Sod Premium	Non Native Sod Premium Liability Amount	P19	101	9999999999	Round to whole number	
Section 10: Native Sod (NS) Total Premium, Subsidy, and Producer Premium Calcu	If Beginning Farmer and Rancher (BFR) applies along with Native Sod (NS) this calculation will be used. See Section 8 if only BFR.					
Native Sod Preliminary = Native Sod Premium Liability Amount * Premium Rate Total Premium Amount	Native Sod Preliminary Total Premium Amount	P19	102	999999999	Round to whole number	
Non Native Sod Preliminary Total = Premium Amount  Non Native Sod Premium Liability Amount * Premium Rate	Non Native Sod Preliminary Total Premium Amount	P19	103	999999999	Round to whole number	
Total Premium Amount = Native Sod Preliminary Total Premium Amount + Non Native Sod Preliminary Total Premium Amount	Total Premium Amount	P19	72	999999999	Round to whole number	Total Premium Amount must be set to \$1.00 when less than \$1.00.
	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.
Base Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070". Subsidy Percent will be based on Coverage Level Percent and Qualifying Commodity Count.

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**Field** Field Field Field Record **Calculations** Rounding Name Number Number **Format** Rules Beginning Farmer Rancher Subsidy Amount. BFR Subsidy Amount = Total Premium Amount \* 0.10 BFR Subsidy Amount P19 104 999999999 Round to whole number If Applicable; else 0. 0.10 (10%). Native Sod Subsidy Amount. Native Sod Subsidy Amount = Native Sod Preliminary Total Premium Amount \* 0.50 Native Sod Subsidy Amount P19 105 999999999 Round to whole number If Applicable; else, 0. 0.50 (50%). Subsidy Amount = Base Subsidy Amount + BFR Subsidy Amount - Native Sod Subsidy Amount Subsidy Amount cannot exceed Total Premium Subsidy Amount P19 73 999999999 Round to whole number Amount. Subsidy Amount will be cupped at \$0. Producer Premium = Total Premium Amount - Subsidy Amount P19 Producer Premium Amount 74 999999999 Round to whole number Amount -

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