Record Name: WFRP Farm Reports

Record Code: P19

Reinsurance Year: 2020

Version: Approved

Release Date: 1/21/2021

76 Whole Farm Revenue Protection (WFRP) **Insurance Plan Code** 0076 Whole Farm Revenue Protection (WFRP) **Commodity Code** Field Record Field Field Field Calculations Name Number Number **Format** Rounding Rules If Native Sod (NS) applies to any commodity Section 1: Liability Calculation under WFRP, see Section 9 for Liability calculations. Liability Amount is 'Insured Revenue'. Liability Amount Cap, cannot exceed \$8.5 million for Liability Amount P19 73 999999999 Round to whole number. WFRP. Liability Amount must be set to \$1.00 Liability Amount = Approved Revenue Amount \* Coverage Level Percent when less than \$1.00. Approved Revenue Amount 71 999999999 None P19 34 9.999 P14 Coverage Level Percent None MAX MPCI = Liability Amount / 2 MAX MPCI Internal 999999999 Round to whole number. Premium Liability must be set to \$1.00 when Premium Liability Amount =  $\frac{\text{Liability Amount - lesser of: (MPCI Liability Amount or MAX MPCI)}}{\text{MAX MPCI)}}$ Premium Liability Amount 999999999 Internal Round to whole number. less than \$1.00. MPCI Liability Amount 32 999999999 P19 None Section 2: Total Weighted Farm Rate Calculation Percent of Revenue Internal 9.999 Round to 3 decimals. Summed per commodity if more then one Expected Revenue Amount / Total Expected Revenue Expected Revenue Amount P19A 15 or 23 999999999 None Expected Revenue Amount for a commodity Percent of Revenue = code due to Native Sod. Total Expected Revenue P19 70 999999999 None Amount If Insurance Option Code List contains "RC", "RS", or "RX": Effective Coverage Level 9.9999 Internal Round to 4 decimals Percent 9.9999 Coverage Level Percent P14 34 None Approved Revenue Amount P19 71 999999999 None Coverage Level Percent \* (Approved Revenue Amount ) lesser of: MAX(Average Revenue Amount, Indexed **Effective Coverage Level** = Average Revenue Amount, Expanded Operation Average Revenue Amount P19 82 999999999 None Percent Average Revenue Amount) or Total Expected Revenue Indexed Average Revenue Amount) 999999999 P19 84 None Amount Expanded Operation Average P19 85 999999999 None Revenue Amount Total Expected Revenue P19 70 999999999 None Amount

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If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance Option Code List does not contain "RC", "RS", or "RX": Weighted Commodity Rate 99,999 Round to 3 decimals. Internal Weighted Commodity Rate \* Percent of Revenue Rate Commodity Rate Internal 999999.9999 None Edit with ADM AGR Rate, "A01000" base rate. If Effective Coverage Level Percent does not equal Coverage Level Percent "and" Insurance Option Code List contains "RC", "RS", or "RX": Lower Coverage Level MIN(0.800,ROUND(FLOOR(Effective Coverage Level 9.99 Lower Coverage Level Percent Round to 2 decimals Internal Percent Percent / 0.05, 1) x 0.05, 2)) Upper Coverage Level Percent + 0.05
Percent 9.99 Upper Coverage Level Percent Round to 2 decimals Internal Edit Commodity Rate with ADM AGR Rate, Lower Weighted Commodity rate = Commodity Rate \* Percent of Revenue Lower Weighted Commodity Internal 99.999 Round to 3 decimals. "A01000" base rate for Lower Coverage Level Edit Commodity Rate with ADM AGR Rate. Upper Weighted Commodity Internal 99.999 Round to 3 decimals. "A01000" base rate for Upper Coverage Level Rate If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance Option Code List does not contain "RC", "RS", or "RX": Total Weighted Farm Rate = sum of Weighted Commodity Rate Total Weighted Farm Rate P19 99,999 Round to 3 decimals. If Effective Coverage Level Percent is less than or equal to 0.8500 "and" Insurance Option Code List contains "RC", "RS", or "RX" and Effective Coverage Level Percent does not equal Coverage Level Percent: Lower Total Weighted Farm Rate = sum of Lower Weighted Commodity Rate Lower Total Weighted Farm P19 119 99.999 Round to 3 decimals. Rate Upper Total Weighted Farm Rate = sum of Upper Weighted Commodity Rate Upper Total Weighted Farm P19 120 99.999 Round to 3 decimals. Rate Lower Total Weighted Farm Rate + ((Upper Total Weighted Farm Rate - Lower Total Weighted Farm Total Weighted Farm Rate = Rate) / (Upper Coverage Level Percent - Lower Total Weighted Farm Rate P19 87 99.999 Round to 3 decimals. Coverage Level Percent)) x (Effective Coverage Level Percent - Lower Coveage Level Percent)) If Effective Coverage Level Percent is greater than 0.8500 "and" Insurance Option Code List contains "RC", "RS", or "RX": Lower Total Weighted = sum of Lower Weighted Commodity Rate Lower Total Weighted Farm 99.999 P19 119 Round to 3 decimals. Upper Total Weighted Farm Rate = sum of Upper Weighted Commodity Rate Upper Total Weighted Farm P19 120 99.999 Round to 3 decimals. Rate (Upper Total Weighted Farm Rate + (((Upper Total Weighted Farm Rate - Lower Total Weighted Farm Rate) / (Upper Coverage Level Percent - Lower Total Weighted Farm Rate = Coverage Level Percent)) x (Effective Coverage Level Total Weighted Farm Rate P19 87 99,999 Round to 3 decimals. Percent - Upper Coverage Level Percent))) x (1 + MIN(0.05, (0.05 x ((Effective Coverage Level Percent -0.8500) / 0.15)^3))) <del>^3)</del>

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Diversity Factor (DF) = See above

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Diversity Factor

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Section 3: Diversty Factor (DF) Calculation 9.999 Round to 3 decimals. Commodity Factor Internal Combined total of eligible commodity count and grouped commodity count unless Qualifying Commodity Count Cup Flag is set to Commodity Factor = 1.00 / Qualifying Commodity Count "Y" then will equal the greater of Eligible Qualifying Commodity Count P19 91 999 None Commodity Count plus Grouped Commodity Count, or the Qualifying Commodity Count when Premium Based Code equaled "I". See Exhibit P14-7. For each Eligible Commodity (not grouped): Commodity Deviation Internal 9.999 Round to 3 decimals. Commodity Deviation Round(ABS((Expected Revenue Amount/Total Expected Revenue Amount) - Commodity Factor),3) Field Field Record Field Field **Calculations** Name Number Number **Format** Rounding Rules If Grouped Commodity Count > 0: 9.999 Commodity Deviation Internal Round to 3 decimals. MQA Internal 999999999 None See Exhibit P14-7. Commodity Deviation
"Absolute Value" = Round(ABS((MQA/Total Expected Revenue Amount)
- Commodity Factor),3) \* Grouped Commodity Count **Grouped Commodity Count** See Exhibit P14-7. P19 90 999 None Sum of Commodity Deviation (DEV) Factors = sum of all Commodity Deviations Sum of Commodity Deviation "DEV" will be used in determination of Diversity Internal 9.999 Round to 3 decimals. Factors Factor (DF). QUALIFYING COMMODITY COUNT **FORMULA** DF = 1.000 1 Commodity 2 Commodities  $DF = 0.668 + (0.0179999 * DEV) + (0.3142858 * DEV^2)$ DF =  $0.523 + (0.0607623 * DEV) + (0.2229000 * DEV^2)$ 3 Commodities 4 Commodities  $DF = 0.474 + (0.0248208 * DEV) + (0.2184720 * DEV^2)$ 5 Commodities  $DF = 0.437 + (0.0710358 * DEV) + (0.1760129 * DEV^2)$ 6 Commodities  $DF = 0.412 + (0.0325131 * DEV) + (0.1945816 * DEV^2)$ 7 Commodities or more DF = 0.410

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92

9.999

Round to 3 decimals.

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Section 4: 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": =	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.		
	∑ Option Rate1 * Option Rate2 * Option Rate3	Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".	
Section 5: Premium Rate C	Calculation				1			
Premium Rate	Diversity Factor * Total Weighted Farm Rate * = Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Premium Rate	P19	93	.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		
Total Premium Amount	= Preliminary Total Premium Amount	Total Premium Amount	P19	74	999999999	Round to whole number	Total Premium Amount must be set to \$1.00 when less than \$1.00.	
	Calculations	<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>	
Subsidy Amount =	ount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P19	75	999999999	Round to whole number	Subsidy Amount must be set to \$1.00 when less than \$1.00.	
		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.	
Producer Premium Amount	= Total Premium Amount - Subsidy Amount	Producer Premium Amount	P19	76	999999999	Round to whole number		
Producer Premium Amount Section 7: A&O Expense St		Producer Premium Amount	P19	76	999999999	Round to whole number		
Section 7: A&O Expense Su		Producer Premium Amount  A&O Expense Subsidy Amount	P19 P19	76 79	999999999	Round to whole number		

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Section 8: Beginning Farmer and Rancher (BFR)/Veteran Farmer Rancher (VFR), and	If Native Sod (NS) applies along with BFR or VFR see Section 10.					
Preliminary Total = Premium Liability Amount * Premium Rate	Preliminary Total Premium Amount	Internal		999999999	Round to whole number	
Total Premium Amount = Preliminary Total Premium Amount	Total Premium Amount	P19	74	9999999999	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
BFR/VFR Subsidy Amount = Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Amount	BFR/VFR Subsidy Amount	P19	101	9999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).
	CC Subsidy Reduction Percent	P19	53	9.9999	None	If Applicable; else 0.
CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Amount	P19	105	999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.
Subsidy Amount = Base Subsidy Amount + BFR/VFR Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P19	75	9999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0
Producer Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P19	76	9999999999	Round to whole number	
ection 9: Native Sod (NS) Liability Calculation						
	Insured Revenue Amount	Internal		999999999	Round to whole number.	Insured Revenue cannot exceed \$8.5 million fo WFRP.
Insured Revenue Amount = Approved Revenue Amount * Coverage Level Percent	Approved Revenue Amount	P19	71	999999999	None	
	Coverage Level Percent	P14	34	9.999	None	

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Ca	alculations	<u>Field</u> Name	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	Rules
<u>Carcatations</u>		Native Sod Percent of Revenue	P19	94	9.999	Round to 3 decimals.	nuies
Native Sod Percent of Revenue Ex	Expected Revenue Amount (Native Sod) / Total Expected Revenue Amount	Expected Revenue Amount	P19A	15 or 23	999999999	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	70	999999999	None		
Native Sod Liability = Ins Amount = of	sured Revenue Amount * Native Sod Percent of Revenue * 0.65	Native Sod Liability Amount	P19	95	999999999	Round to whole number.	
Non Native Sod Liability = Ins	sured Revenue Amount * (1.000 - Native Sod Percent f Revenue)	Non Native Sod Liability Amount	P19	96	999999999	Round to whole number.	
Liability Amount = Na An	ative Sod Liability Amount + Non Native Sod Liability mount	Liability Amount	P19	73	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 = Lia	ability Amount / 2	MAX MPCI	Internal		999999999	Round to whole number.	
Base Premium Liability = Lia	= Liability Amount - lesser of: (MPCI Liability Amount or 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.
Amount Wi		MPCI Liability Amount	P19	32	999999999	None	
Native Sod Premium = Ro Liability Amount = 3)	* Base Premium Liability Amount	Native Sod Premium Liability Amount	P19	97	999999999	Round to whole number	
Non Native Sod Premium = Ba Liability Amount = Lia	ase Premium Liability Amount - Native Sod Premium ability Amount	Non Native Sod Premium Liability Amount	P19	98	999999999	Round to whole number	
Section 10: Native Sod (NS) To	If Beginning Farmer and Rancher (BFR) or Veteran Farmer Rancher (VFR) applies along with Native Sod (NS) this calculation will be used. See Section 8 if only BFR or VFR.						
	ative Sod Premium Liability Amount * Premium Rate	Native Sod Preliminary Total Premium Amount	P19	99	999999999	Round to whole number	
Premium Amount Ra	on Native Sod Premium Liability Amount * Premium ate	Non Native Sod Preliminary Total Premium Amount	P19	100	999999999	Round to whole number	
Total Premium Amount = Na	ative Sod Preliminary Total Premium Amount + Non ative Sod Preliminary Total Premium Amount	Total Premium Amount	P19	74	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 = To	otal 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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<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>
BFR/VFR Subsidy Amount = Total Premium Amount * 0.10	BFR/VFR Subsidy Amount	P19	101	9999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount. If Applicable; else 0. 0.10 (10%).
Native Sod Subsidy Amount = Native Sod Preliminary Total Premium Amount * 0.50	Native Sod Subsidy Amount	P19	102	9999999999	Round to whole number	Native Sod Subsidy Amount. If Applicable; else, 0. 0.50 (50%).
Subsidy Amount = Base Subsidy Amount + BFR/VFR Subsidy Amount - Native Sod Subsidy Amount	Subsidy Amount	P19	75	9999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be cupped at \$0.
Producer Premium = Total Premium Amount - Subsidy Amount Amount	Producer Premium Amount	P19	76	999999999	Round to whole number	