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

Record Code: P19

	Record Code: P19				Release Date:	: 9/2/2021	
Insurance Plan Code 76 Whole Farm Revenue Protection (WFRP)							
	m Revenue Protection (WFRP)	rain revenue i rotection (with	,				
Commodity Code 0076 Whole Fare	m Revende Protection (WFRF)	<u>Field</u> <u>Name</u>	Record Number	<u>Field</u> Number	<u>Field</u> Format	<u>Field</u> Rounding	<u>Rules</u>
Section 1: Liability Calculation							If Native Sod (NS) applies to any commodity under WFRP, see Section 9 for Liability calculations.
Liability Amount = Approved Revenue Amount * Coverage Level Percent		Liability Amount	P19	73	999999999	Round to whole number.	Liability Amount is 'Insured Revenue'. Liability Amount Cap, cannot exceed \$8.5 million for WFRP. Liability Amount must be set to \$1.00 when less than \$1.00.
		Approved Revenue Amount	P19	71	9999999999	None	
	Coverage Level Percent	P14	34	9.999	None		
MAX MPCI = Liability Amount	:/2	MAX MPCI	Internal		999999999	Round to whole number.	
Premium Liability = Liability Amount - lesser of: (MPCI Liability Amount or Amount = MAX MPCI)	Premium Liability Amount	Internal		999999999	Round to whole number.	Premium Liability must be set to \$1.00 when less than \$1.00.	
	MPCI Liability Amount	P19	32	999999999	None		
Section 2: Total Weighted Farm Rate Calcula	ation						
		Percent of Revenue	Internal		9.999	Round to 3 decimals.	111 15
Percent of Revenue = Expected Reven Amount	ue Amount / Total Expected Revenue	Expected Revenue Amount	P19A	15 or 23	999999999	None	Summed per commodity if more then one Expected Revenue Amount for a commodity code due to Native Sod.
		Total Expected Revenue Amount	P19	70	999999999	None	
If Insurance Option Code List contains "RC",	"RS", or "RX":						
		Effective Coverage Level Percent	Internal		9.9999	Round to 4 decimals	
		Coverage Level Percent	P14	34	9.9999	None	
-	e Level Percent * (Approved Revenue Amount	Approved Revenue Amount	P19	71	999999999	None	
Percent = Average Revenu	(Average Revenue Amount, Indexed le Amount, Expanded Operation le Amount) or Total Expected Revenue	Average Revenue Amount	P19	82	999999999	None	
Amount)		Indexed Average Revenue Amount	P19	84	999999999	None	
		Expanded Operation Average Revenue Amount	P19	85	999999999	None	
		Total Expected Revenue Amount	P19	70	999999999	None	

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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 = Commodity Rate * Percent of Revenue	Weighted Commodity Rate	Internal		99.999	Round to 3 decimals.				
Rate 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 Percent = MIN(0.800,ROUND(FLOOR(Effective Coverage Level Percent / 0.05, 1) x 0.05, 2))	Lower Coverage Level Percent	Internal		9.99	Round to 2 4 decimals				
Upper Coverage Level = Lower Coverage Level Percent + 0.05 Percent	Upper Coverage Level Percent	Internal		9.99	Round to 2 4-decimals				
Lower Weighted = Commodity Rate * Percent of Revenue Commodity rate	Lower Weighted Commodity Rate	Internal		99.999	Round to 3 decimals.	Edit Commodity Rate with ADM AGR Rate, "A01000" base rate for Lower Coverage Level Percent.			
Upper Weighted Commodity rate = Commodity Rate * Percent of Revenue	Upper Weighted Commodity Rate	Internal		99.999	Round to 3 decimals.	Edit Commodity Rate with ADM AGR Rate, "A01000" base rate for Upper Coverage Level Percent.			
If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance	If Effective Coverage Level Percent equals Coverage Level Percent "or" Insurance Option Code List does not contain "RC", "RS", or "RX":								
Total Weighted Farm = sum of Weighted Commodity Rate	Total Weighted Farm Rate	P19	87	99.999	Round to 3 decimals.				
If Effective Coverage Level Percent is less than or equal to 0.8500 "and" Insurance	e Option Code List contains "RC"	, "RS", or "RX	" and Effectiv	re Coverage Level P	ercent does not equal Covera	ge Level Percent:			
Lower Total Weighted Farm Rate = sum of Lower Weighted Commodity Rate	Lower Total Weighted Farm Rate	P19	120	99.999	Round to 3 decimals.				
Upper Total Weighted Farm Rate = sum of Upper Weighted Commodity Rate	Upper Total Weighted Farm Rate	P19	121	99.999	Round to 3 decimals.				
Total Weighted Farm Rate Lower Total Weighted Farm Rate + ((Upper Total Weighted Farm Rate - Lower Total Weighted Farm Rate) / (Upper Coverage Level Percent - Lower Coverage Level Percent)) x (Effective Coverage Level Percent - Lower Coveage Level Percent))	Total Weighted Farm Rate	P19	87	99.999	Round to 3 decimals.				
If Effective Coverage Level Percent is greater than 0.8500 "and" Insurance Option	Code List contains "RC", "RS", o	or "RX":							
Lower Total Weighted Farm Rate = sum of Lower Weighted Commodity Rate	Lower Total Weighted Farm Rate	P19	120	99.999	Round to 3 decimals.				
Upper Total Weighted Farm Rate = sum of Upper Weighted Commodity Rate	Upper Total Weighted Farm Rate	P19	121	99.999	Round to 3 decimals.				
(Upper Total Weighted Farm Rate + (((Upper Total Weighted Farm Rate - Lower Total Weighted Farm Rate) / (Upper Coverage Level Percent - Lower Coverage Level Percent - Lower Percent - Upper Coverage Level Percent))) x (1 + MIN(0.05, (0.05 x ((Effective Coverage Level Percent - 0.8500) / 0.15)^3))) ^3)	Total Weighted Farm Rate	P19	87	99.999	Round to 3 decimals.				

Diversity Factor

Diversity Factor (DF) = See above

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Release Date: 9/2/2021 Section 3: Diversty Factor (DF) Calculation 9.999 Commodity Factor Internal Round to 3 decimals. 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 92 999 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 "Absolute Value" Expected Revenue Amount) - Commodity Factor),3) <u>Field</u> <u>Field</u> Record Field <u>Field</u> <u>Number</u> **Calculations** <u>Name</u> <u>Number</u> **Format Rounding Rules** If Grouped Commodity Count > 0: **Commodity Deviation** 9.999 Round to 3 decimals. Internal 999999999 MQA None See Exhibit P14-7. Internal Commodity Deviation Round(ABS((MQA/Total Expected Revenue Amount) "Absolute Value" = - Commodity Factor),3) * Grouped Commodity Count **Grouped Commodity Count** P19 90 999 None See Exhibit P14-7. Sum of Commodity
Deviation (DEV) Factors = sum of all Commodity Deviations "DEV" will be used in determination of Sum of Commodity Deviation Internal 9.999 Round to 3 decimals. Factors Diversity Factor (DF). **QUALIFYING COMMODITY COUNT FORMULA** DF = 1.0001 Commodity 2 Commodities $DF = 0.668 + (0.0179999 * DEV) + (0.3142858 * DEV^{2})$ 3 Commodities DF = $0.523 + (0.0607623 * DEV) + (0.2229000 * DEV^2)$ 4 Commodities $DF = 0.474 + (0.0248208 * DEV) + (0.2184720 * DEV^2)$ 5 Commodities $DF = 0.437 + (0.0710358 * DEV) + (0.1760129 * DEV^{2})$ DF = $0.412 + (0.0325131 * DEV) + (0.1945816 * DEV^2)$ 6 Commodities DF = 0.4107 Commodities or more

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9.999

Round to 3 decimals.

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Section 4: Optional Covera	ge Calculation									
Additive Optional Rate =		Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.				
	When Rate Method Code is Additive, "A": Doption 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	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	94	.999	Round to 3 decimals.	Premium Rate is capped at 0.999.			
Section 6: Total Premium,	Subsidy, and Producer Premium Calculation						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>	<u>Record</u> <u>Number</u>	<u>Field</u> <u>Number</u>	<u>Field</u> <u>Format</u>	<u>Field</u> <u>Rounding</u>	Rules			
		Subsidy Amount	P19	75	999999999	Round to whole number	Subsidy Amount must be set to \$1.00 when less than \$1.00.			
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.			
Producer Premium = Amount =	Total Premium Amount - Subsidy Amount	Producer Premium Amount	P19	76	999999999	Round to whole number				
Section 7: A&O Expense Subsidy Calculation										
A&O Expense Subsidy	_ Total Premium Amount * A&O Expense Subsidy	A&O Expense Subsidy Amount	P19	79	9999999999.99					
Amount Perc		A&O Expense Subsidy Percent	Internal			None				

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Section 8: Beginning Farmer and Rancher (BFR)/Veteran Farmer Rancher (VFR), ar	If Native Sod (NS) applies along with BFR or VFR see Section 10.						
Preliminary Total = Premium Liability Amount * Premium Rate Premium Amount	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.	
Base Subsidy Amount = Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		999999999	Round to whole number	Cupped by the standard rule of \$1 if applicable.	
	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	102	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	Producer Premium Amount	P19	76	9999999999	Round to whole number		
Section 9: Native Sod (NS) Liability Calculation							
	Insured Revenue Amount	Internal		999999999	Round to whole number.	Insured Revenue cannot exceed \$8.5 million for 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		

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

Record Name: WFRP Farm Reports **Record Code:** P19

	Field	Record	Field	Field	Field	T
Calculations	Name	Number	Number	Format	Rounding	Rules
Native Sod Percent of Expected Revenue Amount (Native Sod) / Total	Native Sod Percent of Revenue	P19	95	9.999	Round to 3 decimals.	
	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 Amount = Insured Revenue Amount * Native Sod Percent of Revenue * 0.65	Native Sod Liability Amount	P19	96	9999999999	Round to whole number.	
Non Native Sod Liability = Insured Revenue Amount * (1.000 - Native Sod Amount = Percent of Revenue)	Non Native Sod Liability Amount	P19	97	999999999	Round to whole number.	
Liability Amount = Native Sod Liability Amount + Non Native Sod Liability Amount	Liability Amount	P19	73	9999999999	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.
Amount MAX MPCI)	MPCI Liability Amount	P19	32	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	98	999999999	Round to whole number	
Non Native Sod Premium Base Premium Liability Amount - Native Sod Premium Liability Amount Liability Amount	Non Native Sod Premium Liability Amount	P19	99	9999999999	Round to whole number	
Section 10: Native Sod (NS) Total Premium, Subsidy, and Producer Premium Calculation						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.
Native Sod Preliminary Total Premium Amount = Native Sod Premium Liability Amount * Premium Rate	Native Sod Preliminary Total Premium Amount	P19	100	9999999999	Round to whole number	
Non Native Sod Preliminary Total = Rate Premium Amount	Non Native Sod Preliminary Total Premium Amount	P19	101	9999999999	Round to whole number	
Total Premium Amount = Native Sod Preliminary Total Premium Amount + Non Native 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 = 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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Calculations	<u>Field</u>	<u>Record</u>	<u>Field</u>	<u>Field</u>	<u>Field</u>	D. J
<u>Calculations</u>	<u>Name</u>	<u>Number</u>	<u>Number</u>	<u>Format</u>	Rounding	<u>Rules</u>
BFR/VFR Subsidy Amount = Total Premium Amount * 0.10	BFR/VFR Subsidy Amount	P19	102	999999999	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	103	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	Producer Premium Amount	P19	76	999999999	Round to whole number	