Exhibit Name: DRP Indemnity Calculations
Exhibit Number: P28-1, Plan 83 **Reinsurance Year:** 2023
Record Name: DRP Indemnity **Version:** Draft
Record Code: P28 **Release Date:** 7/28/2022

Insurance Plan Code	83 Dairy Revenue Protection
Commodity Code	0830 Milk

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Section 1: Yield Adjustment Factor Calculation						
YieldAdjustmentFactor = Round(ActualYield / ExpectedYield,4)	Yield Adjustment Factor	P28	25	9.9999	4 decimals	
	Actual Yield	A00832	7	9999	None	
	Expected Yield	A00832	6	9999	None	
Section 2: Covered Milk Production						
Covered Milk Production = Round(Min (Total Producer Declared Production , Total Milk Marketings/ 0.85) * Declared Covered Milk Production / Total Producer Declared Production,0)	Covered Milk Production	P28	15	9999999999	0 decimals	
	Total Producer Declared Production	P29	11	9999999999	None	
	Total Milk Marketings	P28	14	9999999999	None	
	Declared Covered Milk Production	P18	28	9999999999	None	
Section 3: Class Price Loss Calculation						
ActualMilkRevenue = Round(Round(Round(Round((ActualClassIIIPrice * DeclaredClassPriceWeightingFactor),4) + Round((ActualClassIVPrice * (1 - DeclaredClassPriceWeightingFactor)),4),4) * CoveredMilkProduction * YieldAdjustmentFactor,4) / 100.00,0)	Actual Milk Revenue	P28	21	9999999999	0 decimals	
	Actual Class III Price	A00834	17	999.9999	None	
	Declared Class Price Weighting Factor	P18	30	9.99	None	
	Actual Class IV Price	A00834	18	999.9999	None	
	Covered Milk Production	P28	15	9999999999	None	
	Yield Adjustment Factor	P28	25	9.9999	None	
Final Milk Revenue = When Class Price Weighting Factor Restricted Value is not published: ROUND((ROUND((ROUND((ROUND((ExpectedClassIIIPrice * DeclaredClassPriceWeightingFactor), 4) + ROUND((ExpectedClassIVPrice * (1 - DeclaredClassPriceWeightingFactor)), 4)), 4) * CoveredMilkProduction), 4) / 100.00), 0)	Final Milk Revenue	P28	22	9999999999	0 decimals	
	Expected Class III Price	A00833	37	999.9999	None	
	Declared Class Price Weighting Factor	P18	30	9.99	None	
	Expected Class IV Price	A00833	38	9999.9999	None	
	Covered Milk Production	P28	15	9999999999	None	
	Class Price Weighting Factor Restricted Value	A00833	54	9.99	None	
When Class Price Weighting Factor Restricted Value is equal to 1: ROUND((ROUND((ExpectedClassIIIPrice * CoveredMilkProduction), 4) / 100.00), 0)						
When Class Price Weighting Factor Restricted Value is equal to 0: ROUND((ROUND((ExpectedClassIVPrice * CoveredMilkProduction), 4) / 100.00), 0)						
Section 4: Component Price Loss Calculation						
FinalButterfatTest = ROUND(Min(Declared Butterfat Test, Actual Butterfat Tes/ 0.9), 2)	Final Butterfat Test	P28	17	9.99	2 decimals	
	Actual Butterfat Test	P28	16	9.99	2 decimals	
	Declared Butterfat Test	P18	31	9.99	2 decimals	
FinalProteinTest =	Final Protein Test	P28	19	9.99	2 decimals	

ROUND(Min(Declared Protein Test, Actual Protein Test/ 0.9), 2)	Actual Protein Test	P28	18	9.99	2 decimals
	Declared Protein Test	P18	32	9.99	2 decimals

ActualMilkRevenue = Round((Round(DeclaredComponentPriceWeightingFactor * (Round(ActualButterfatPrice * FinalButterfatTest, 4) + Round(ActualProteinPrice * FinalProteinTest, 4) + Round(ActualOtherSolidsPrice * 5.7, 4)), 4) + Round((1 - DeclaredComponentPriceWeightingFactor) * (Round(ActualButterfatPrice * FinalButterfatTest, 4) + Round(ActualNonfatSolidsPrice * (FinalProteinTest + 5.7), 4)), 4)) * (CoveredMilkProduction * ActualYieldAdjustmentFactor / 100.00), 0)	Actual Milk Revenue	P28	21	9999999999	0 decimals	
	Actual Butterfat Price	A00834	18	999.9999	None	
	Final Butterfat Test	P28	17	9.99	2 decimals	
	Actual Protein Price	A00834	19	999.9999	None	
	Final Protein Test	P28	19	9.99	2 decimals	
	Actual Other Solids Price	A00834	20	999.9999	None	
	Declared Component Price Weighting Factor	P18	33	9.99	None	
	Actual Nonfat Solids Price	A00834	22	999.9999	None	
	Covered Milk Production	P28	15	9999999999	None	
	Yield Adjustment Factor	P28	25	9.9999	None	
Final Milk Revenue =	Final Milk Revenue	P28	22	9999999999	0 decimals	
When Component Price Weighting Factor Restricted Value is not published: ROUND((ROUND(Declared Component Price Weighting Factor * (ROUND(Expected Butterfat Price * Final Butterfat Test, 4) + ROUND(Expected Protein Price * Final Protein Test, 4) + ROUND(Expected Other Solids Price * 5.7, 4)), 4) + ROUND((1 - Declared Component Price Weighting Factor) * (ROUND(Expected Butterfat Price * Final Butterfat Test, 4) + ROUND(Expected Nonfat Solids Price * (Final Protein Test + 5.7), 4)), 4)) * (Covered Milk Production / 100.00), 0)						
	Expected Butterfat Price	A00833	39	999.9999	None	
	Final Butterfat Test	P28	17	9.99	None	
	Expected Protein Price	A00833	40	999.9999	None	
	Declared Component Price Weighting Factor	P18	33	9.99	None	
	Expected Nonfat Solids Price	A00833	52	999.9999	None	
When Component Price Weighting Factor Restricted Value is 1: ROUND(ROUND((ROUND(Expected Butterfat Price * Final Butterfat Test, 4) + ROUND(Expected Protein Price * Final Protein Test, 4) + ROUND(Expected Other Solids Price * 5.7, 4)), 4) * (Covered Milk Production / 100.00), 0)	Final Protein Test	P28	19	9.99	None	
	Expected Other Solids Price	A00833	41	999.9999	None	
When Component Price Weighting Factor Restricted Value is 0: ROUND(ROUND((ROUND(Expected Butterfat Price * Final Butterfat Test, 4) + ROUND(Expected Nonfat Solids Price * (Final Protein Test + 5.7), 4)), 4) * (Covered Milk Production / 100.00), 0)	Covered Milk Production	P28	15	9999999999	None	
	Component Price Weighting Factor Restricted Value	A00833	53	9.99	None	
Section 5: Indemnity Calculation						
FinalRevenueGuarantee = ROUND((Final Milk Revenue * Coverage Level Percent), 0)	Final Revenue Guarantee	P28	23	9999999999	0 decimals	
	Coverage Level Percent	P18	27	9.99	None	
	Final Milk Revenue	P28	22	9999999999		
Preliminary Indemnity Amount = ROUND((MAX(Final Revenue Guarantee - Actual Milk Revenue, 0) * Actual Share * Protection Factor), 0)	Preliminary Indemnity Amount	Internal		9999999999	0 decimals	
	Final Revenue Guarantee	P28	23	9999999999	None	
	Actual Milk Revenue	P28	21	9999999999	None	
	Actual Share	P28	20	9.9999	None	
	Protection Factor	P18	29	9.9999	None	
Indemnity Amount = When Disaster Declaration Flag = N: Preliminary Indemnity Amount When Disaster Declaration Flag = Y : MIN(Producer Premium Amount, Preliminary Indemnity Amount)	Indemnity Amount	P28	25	9999999999	0 decimals	
	Disaster Declaration Flag	P28	24	9	None	
	Producer Premium Amount	P18	46	9999999999	None	