

<b>Exhibit Name:</b> DRP Indemnity Calculations <b>Exhibit Number:</b> P28-1, Plan 83 <b>Record Name:</b> DRP Indemnity <b>Record Code:</b> P28	<b>Reinsurance Year:</b> 2023 <b>Version:</b> Approved <b>Release Date:</b> 7/1/2022
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<b>Insurance Plan Code</b>	83 Dairy Revenue Protection
<b>Commodity Code</b>	0830 Milk

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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**Section 1: Yield Adjustment Factor Calculation**

YieldAdjustmentFactor = Round(AccualYield / 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 * ClassPriceWeightingFactor ),4) + Round(( ActualClassIVPrice * (1 - ClassPriceWeightingFactor) ),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	
	Class Price Weighting Factor	P18	30	9.9999	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)  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)	Final Milk Revenue	P28	22	9999999999	0 decimals	
	Expected Class III Price	A00833	37	999.9999	None	
	Class Price Weighting Factor	P18	30	999.9999	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	

**Section 4: Component Price Loss Calculation**

FinalButterfatTest = ROUND(Min(Declared Butterfat Test, Actual Butterfat Tes/ 0.9), 2)	Final Butterfat Test	P28	17	99.99	2 decimals	
	Actual Butterfat Test	P28	16	99.99	2 decimals	
	Declared Butterfat Test	P18	31	99.99	2 decimals	

FinalProteinTest = ROUND(Min(Declared Protein Test, Actual Protein Test/ 0.9), 2)	Final Protein Test	P28	19	99.99	2 decimals	
	Actual Protein Test	P28	18	99.99	2 decimals	
	Declared Protein Test	P18	32	99.99	2 decimals	

ActualMilkRevenue = Round((Round(ComponentPriceWeightingFactor * (Round(ActualButterfatPrice * FinalButterfatTest, 4) + Round(ActualProteinPrice * FinalProteinTest, 4) + Round(ActualOtherSolidsPrice * 5.7, 4)), 4) + Round((1 - ComponentPriceWeightingFactor) * (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	99.99	2 decimals
	Actual Protein Price	A00834	19	999.9999	None
	Final Protein Test	P28	19	99.99	2 decimals
	Actual Other Solids Price	A00834	20	999.9999	None
	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(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 - 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	999.9999	None
	Expected Protein Price	A00833	40	999.9999	None
	Component Price Weighting Factor	P18	33	9.99	None
	Expected Nonfat Solids Price	A00833	52	999.9999	None
	Final Protein Test	P28	19	9999999999	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)				999.9999	None
	Expected Other Solids Price	A00833	41		
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
<b>Section 5: Indemnity Calculation</b>					
FinalRevenueGuarantee = Round( FinalMilkRevenue * CoverageLevelPercent,0)	Final Revenue Guarantee	P28	23	9999999999.99	0 decimals
	Coverage Level Percent	P18	27	9.9999	None
	Final Milk Revenue	P28	22	9999999999	
IndemnityAmount = Round(MAX(FinalRevenueGuarantee - ActualMilkRevenue, 0) * ActualShare * ProtectionFactor,0)	Indemnity Amount	P28	24	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