

Exhibit Name: DRP Indemnity Calculations						
Exhibit Number: P28-1, Plan 83		Reinsurance Year: 2021				
Record Name: DRP Indemnity		Version: Approved				
Record Code: P28		Release Date: 8/20/2020				
Insurance Plan Code: 83 Dairy Revenue Protection						
Commodity Code: 0830 Milk						
Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
<b>Section 1: Yield Adjustment Factor Calculation</b>						
YieldAdjustmentFactor = ROUND(Actual Yield / Expected Yield, 4)	Yield Adjustment Factor	P28	25	9.9999	4 decimals	
	Actual Yield	A00832	7	9999	None	
	Expected Yield	A00832	6	9999	None	
<b>Section 2: Covered Milk Production</b>						
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	
<b>Section 3: Class Price Loss Calculation</b>						
Actual Milk Revenue = ROUND(ROUND( ROUND((Actual Class III Price * Class Price Weighting Factor), 4) + ROUND((Actual Class IV Price * (1 - Class Price Weighting Factor)), 4), 4) * Covered Milk Production * Yield Adjustment Factor, 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 = ROUND(ROUND(ROUND( ROUND((Expected Class III Price * Class Price Weighting Factor), 4) + ROUND((Expected Class IV Price * (1 - Class Price Weighting Factor)), 4), 4) * Covered Milk Production, 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	999.9999	None	
	Covered Milk Production	P28	15	9999999999	None	
<b>Section 4: Component Price Loss Calculation</b>						
Final Butterfat Test = ROUND(MIN(Declared Butterfat Test, Actual Butterfat Test / 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	
Final Protein Test = 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	
Actual Milk Revenue = ROUND(ROUND(Component Price Weighting Factor * (ROUND(Actual Butterfat Price * Final Butterfat Test, 4) + ROUND(Actual Protein Price * Final Protein Test, 4) + ROUND(Actual Other Solids Price * 5.7, 4)), 4) + ROUND((1 - Component Price Weighting Factor) * (ROUND(Actual Butterfat Price * Final Butterfat Test, 4) + ROUND(Actual Nonfat Solids Price * (Final Protein Test + 5.7), 4)), 4) * (Covered Milk Production * Actual Yield Adjustment Factor / 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 = 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)	Final Milk Revenue	P28	22	9999999999	0 decimals	
	Expected Butterfat Price	A00833	39	999.9999	None	
	Final Protein 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	
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	9999999999	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	
<b>Section 5: Indemnity Calculation</b>						
Final Revenue Guarantee = ROUND(Final Milk Revenue * Coverage Level Percent, 0)	Final Revenue Guarantee	P28	23	9999999999	0 decimals	
	Coverage Level Percent	P18	27	9.9999	None	
	Final Milk Revenue	P28	22	9999999999	None	
IndemnityAmount = ROUND(MAX(Final Revenue Guarantee - Actual Milk Revenue, 0) * Actual Share * Protection Factor, 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	