

Exhibit Name: Premium Calculation
 Exhibit Number: P11-14, Plan 37
 Record Name: Acreage
 Record Code: P11

Reinsurance Year: 2023
 Version: Draft
 Release Date: 6/22/2023

Hurricane Insurance Protection (HIP)

Insurance Plan Code 37 Hurricane Insurance Protection - Wind Index

Commodity Code	0011 Wheat	0034 Peaches	0072 Cabbage	0105 Fresh Market Beans	0210 Lime Trees	0236 Cigar Wrapper Tobacco
	0012 Blueberries	0038 Sugarcane	0073 Nursery	01010 Nursery (NVS)	0211 Avocado	0255 Banana
	0013 Onions	0041 Corn	0075 Peanuts	0116 Clams	0212 Avocado Trees	0256 Coffee
	0015 Canola	0042 Sweet Corn	0078 Sunflowers	0132 Cucumbers	0213 Carambola Trees	0257 Papaya
	0016 Oats	0044 Fresh Market Sweet Corn	0079 Clary Sage	0156 Sweet Potatoes	0214 Mango Trees	0265 Banana Tree
	0018 Rice	0046 Processing Beans	0080 Hybrid Seed Rice	0184 Apple Trees	0227 Oranges	0266 Coffee Tree
	0019 Avocados	0047 Dry Beans	0081 Soybeans	0193 Tangerine Trees	0229 Flue Cured Tobacco	0267 Papaya Tree
	0020 Pecans	0051 Grain Sorghum	0083 Peppers	0201 Grapefruit	0230 Fire Cured Tobacco	0284 Pecan Trees
	0021 Cotton	0053 Grapes	0084 Potatoes	0202 Lemons	0231 Burley Tobacco	0309 Mandarins/Tangerines
	0022 Cotton Ex Long Staple	0054 Apples	0086 Fresh Market Tomatoes	0203 Tangelos	0232 Maryland Tobacco	0396 Sesame
	0023 Macadamia Nut	0058 Cranberries	0087 Tomatoes	0207 Orange Trees	0233 Dark Air Tobacco	1218 Hemp
	0024 Macadamia Trees	0062 Hybrid Corn Seed	0091 Barley	0208 Grapefruit Trees	0234 Cigar Filler Tobacco	1302 Tangors
	0032 Forage Seeding	0064 Green Peas	0094 Rye	0209 Lemon Trees	0235 Cigar Binder Tobacco	9936 Limes
	0033 Forage Production					

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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Section 1: Liability Calculation

When there is a base policy only (No SCO or STAX):

Coverage Range = 0.95 - Coverage Level Percent	Coverage Range	Internal		9.9999	2 decimal places	Coverage Range (Supplemental Coverage Range) of insured's expected value. Difference between area loss trigger and coverage level of the underlying policy.
	Coverage Level Percent	P14	34	9.9999	2 decimal places	Coverage Level Percent will be the corresponding underlying policy Coverage Level Percent. Edit with ADM Area Coverage Level, "A01130." When the insurance plan code on the base/underlying policy is '40', Tree Based Dollar Amount of Insurance, and the Insurance Option Code of 'CE' exists on the base/underlying policy then use the base/underlying policy's CEO Coverage Level Percent.

When SCO coverage is applicable:

Coverage Range = 0.95 - Area Loss Trigger	Coverage Range	Internal		9.9999	2 decimal places	Coverage Range (Supplemental Coverage Range) of insured's expected value. Difference between area loss trigger and coverage level of the underlying policy.
	Area Loss Trigger	ADM		9.99	2 decimal places	SCO Area Loss Trigger will be 0.86 (86%). Edit with ADM Area Coverage Level, "A01130", Area Loss Start Percent.

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	0020 Pecans	0051 Grain Sorghum	0083 Peppers	0201 Grapefruit	0230 Fire Cured Tobacco	0284 Pecan Trees
	0021 Cotton	0053 Grapes	0084 Potatoes	0202 Lemons	0231 Burley Tobacco	0309 Mandarins/Tangerines
	0022 Cotton Ex Long Staple	0054 Apples	0086 Fresh Market Tomatoes	0203 Tangelos	0232 Maryland Tobacco	0396 Sesame
	0023 Macadamia Nut	0058 Cranberries	0087 Tomatoes	0207 Orange Trees	0233 Dark Air Tobacco	1218 Hemp
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When STAX coverage is applicable:

Coverage Range = 0.95 - Coverage Level Percent	Coverage Range	Internal		9.9999	2 decimal places	
	Coverage Level Percent	P14	34	9.9999	2 decimal places	Coverage Level Percent will be the corresponding underlying STAX policy's Coverage Level Percent. Edit with ADM Area Coverage Level, "A01130."

For all coverages:

Expected Commodity = Underlying Liability Amount / (Base Coverage Level Value Percent * Price Election Percent)	Expected Commodity Value	Internal		9999999999	Round to whole number	Expected Crop Value
	Underlying Liability Amount	Internal		9999999999	None	Underlying Liability Amount.
	Base Coverage Level Percent	Internal		9.9999	2 decimal places	Coverage Level Percent will be the corresponding underlying policy Coverage Level Percent. Edit with ADM Area Coverage Level, "A01130." When the insurance plan code on the base/underlying policy is '40', Tree Based Dollar Amount of Insurance, and the Insurance Option Code of 'CE' exists on the base/underlying policy then use the base/underlying policy's CEO Coverage Level Percent.
	Price Election Percent	Internal		9.9999	None	Underlying Price Election Percent. Underlying/base Cottonseed lines will reflect 1.00.
Total Guarantee = Expected Commodity Value * Coverage Range	Total Guarantee	Internal		9999999999	Round to whole number.	Maximum Supplemental Protection
	Preliminary Liability Amount	Internal	Internal	9999999999	Round to whole number	

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0018	Rice	0046	Processing Beans	0080	Hybrid Seed Rice	0184	Apple Trees	0227	Oranges	0266	Coffee Tree
0019	Avocados	0047	Dry Beans	0081	Soybeans	0193	Tangerine Trees	0229	Flue Cured Tobacco	0267	Papaya Tree
0020	Pecans	0051	Grain Sorghum	0083	Peppers	0201	Grapefruit	0230	Fire Cured Tobacco	0284	Pecan Trees
0021	Cotton	0053	Grapes	0084	Potatoes	0202	Lemons	0231	Burley Tobacco	0309	Mandarins/Tangerines
0022	Cotton Ex Long Staple	0054	Apples	0086	Fresh Market Tomatoes	0203	Tangelos	0232	Maryland Tobacco	0396	Sesame
0023	Macadamia Nut	0058	Cranberries	0087	Tomatoes	0207	Orange Trees	0233	Dark Air Tobacco	1218	Hemp
0024	Macadamia Trees	0062	Hybrid Corn Seed	0091	Barley	0208	Grapefruit Trees	0234	Cigar Filler Tobacco	1302	Tangors
0032	Forage Seeding	0064	Green Peas	0094	Rye	0209	Lemon Trees	0235	Cigar Binder Tobacco	9936	Limes
0033	Forage Production										

Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
Preliminary Liability Amount = Total Guarantee * Price Election Percent	Price Election Percent	P14	35	9.9999	2 decimal places	Coverage percentage Edit with ICE Price Election Percent , "D00007." Coverage percentage can range from .01 to 1.00 (100%) in increments of 1%. HIP-WI lines covering cottonseed liability will reflect the elected HIP-WI Coverage Percentage as reported in the Price Election Percent field.
Liability Amount = Preliminary Liability Amount	Liability Amount	P11	101	9999999999	Round to whole number	Cup at \$1.

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Calculations	Field Name	Record Number	Field Number	Field Format	Field Rounding	Rules
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When a reduction in acres is required:

$\text{HIPWI Acre Limitation Factor} = \frac{\text{ROUND}(\text{MIN}(\text{HIPWI Acre Limitation Amount}, \text{SUMMED Reported Planted Acreage})/\text{SUMMED Reported Planted Acreage}, .01)}{\text{Preliminary Liability Amount} * \text{HIPWI Acre Limitation Factor}}$	HIPWI Acre Limitation Factor	P11	Internal	0.99	Round to 2 decimal places	
	HIPWI Acre Limitation Amount	P11	84	99999999.99		
	Reported Planted Acreage	P11	48	99999999.99		
Liability Amount =	Liability Amount	P11	94	9999999999	Round to whole number	Supplemental Protection

Section 2: Total Premium, Subsidy, and Producer Premium Calculation

When 'TS', Tropical Storm, is found in the Insurance Option Code List field.

$\text{Additive Optional Rate Adjustment Factor} = \sum \text{Option Rate} * \text{Rate Differential Factor}$	Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals	Complete this step when the Insurance Option Code List field contains 'TS', Tropical Storm.
	Option Rate	ADM		99999.9999	None	Edit with ADM HIP Option Rate (new table)
	Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, 'A01040'.
$\text{Premium Base Rate} = \text{Base Rate} + \text{Additive Optional Rate Factor}$	Premium Base Rate	Internal		88888888.88888888	Round to 8 decimals	
	Base Rate	ADM		9.9999		Edit with ADM HIP Rate, 'A01140' table.
	Additive Optional Rate Adjustment Factor	Internal		999999.9999		

When Commodity Code is 0207, 0208, 0209, 0210, 0211, 0212, 0213, or 0214:

$\text{Preliminary Total Premium Amount} = \text{Liability Amount} * \text{Premium Base Rate} * \text{Proration Percent}$	Preliminary Total Premium Amount	Internal		9999999999	Round to whole number.	
	Proration Percent	P11	88	9.99	None	

Otherwise:

$\text{Preliminary Total Premium Amount} = \text{Liability Amount} * \text{Premium Base Rate} * \text{Total Premium Multiplicative Optional Rate Adjustment Factor}$	Preliminary Total Premium Amount	Internal		9999999999	Round to whole number.	
	Total Premium Multiplicative Optional Rate Adjustment Factor	ADM		9.9999	None	If underlying P11 has Short Rate, "SR", in Insurance option Code List then this P11 must use the same Total Premium Multiplicative Optional Rate Adjustment Factor.

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Total Premium Amount = Preliminary Total Premium Amount * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	103	9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	101	9999999999	Round to whole number.	If this record qualifies for Beginning Farmer and Rancher or Native Sod, see Section 3 for subsidy calculations.
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070."
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	103	9999999999	Round to whole number.	
Section 3: Beginning Farmer and Rancher (BFR), Veteran Farmer Rancher (VFR), Native Sod (NS) and Conservation Compliance (CC) Subsidy Calculations						
Base Subsidy Amount = Total Premium Amount * Subsidy Percent	Base Subsidy Amount	Internal		9999999999	Round to whole number	Capped by the standard rule of \$1 if applicable.
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
BFR/VFR Subsidy Amount = Total Premium Amount * 0.10 * (1 - CC Subsidy Reduction Percent)	BFR/VFR Subsidy Amount	Internal		9999999999	Round to whole number	Beginning Farmer Rancher/Veteran Farmer Rancher Subsidy Amount.
Native Sod Subsidy Amount = Total Premium Amount * 0.50	Native Sod Subsidy Amount	Internal		9999999999	Round to whole number	If Applicable; else 0. 0.50 (50%). For CAT coverage, Native Sod Subsidy Amount is always 0.
CC Subsidy Reduction Amount = Base Subsidy Amount * CC Subsidy Reduction Percent	CC Subsidy Reduction Percent	P11	76	9.9999	None	If Applicable; else 0.
	CC Subsidy Reduction Amount	P11	118	9999999999	Round to whole number	CC Subsidy Reduction Amount. If Applicable; else 0.
Subsidy Amount = Base Subsidy Amount + BFR/VFR Subsidy Amount - Native Sod Subsidy Amount - CC Subsidy Reduction Amount	Subsidy Amount	P11	100	9999999999	Round to whole number	Subsidy Amount cannot exceed Total Premium Amount. Subsidy Amount will be capped at \$0.
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	103	9999999999	Round to whole number	