

The Future of the Private Flood Insurance Market in Louisiana

John Hageman, March 2020



Future of Private Flood Insurance



Private Flood Insurance – Start with NFIP

Difference Between Earned Premium and Claims Paid by NFIP By Year (1978–2015 in \$Millions)

Sources: FEMA



Private Flood Insurance – Start with NFIP



National Flord Immuner Program Flood Insurance Manual

S FEMA

Flood Insurance Manual: National Flood Insurance Program

by U.S. Department of Homeland Security and Federal Emergency Management Agency | Sep 26, 2013 ★☆☆☆☆~1

Paperback

\$24⁹⁹

prime Get it as soon as Tue, Feb 18 FREE Shipping on orders over \$25 shipped by Amazon

Mass Market Paperback

\$3336

\$3.99 shipping Only 1 left in stock - order soon.

Product details

Paperback: 506 pages

	FIRM ZONES A, AE, A1-A30, AO, AH, D4											
Ī	SINGLE	FAMILY	2-4 B	AMILY	OTHER RE	SIDENTIAL	NON-RES BUSI					
1	Duilding	Contonto	Duilding	Contonto	Duilding	Contonto	Duilding	6				

OCCUPANCY		SINGLE FAMILY		2–4 FAMILY		OTHER RESIDENTIAL		NON-RESIDENTIAL BUSINESS ⁵		OTHER NON-RESIDENTIAL ⁵	
		Building	Contents	Building	Contents	Building	Contents	Building	Contents	Building	Contents
	No Basement/Enclosure	1.12 / 1.03	1.41/1.84	1.12/1.03		1.12/2.16		2.36/4.43		1.22/2.26	
	With Basement	1.20 / 1.51	1.41/1.55	1.20/1.51		1.12 / 1.80		2.49 /4.32		1.28/2.22	
L E I	With Enclosure ⁶	1.20 / 1.81	1.41/1.84	1.20/1.81		1.20 /2.24		2.49 /5.47		1.28/2.79	
1 ž	Elevated on Crawlspace	1.12/1.03	1.41/1.84	1.12/1.03		1.12/2.16		2.36/4.43		1.22/ 2.26	
BUILDING	Non-Elevated with Subgrade Crawlspace	1.12 / 1.03	1.41/1.55	1.12/1.03		1.12 /2.16		2.36/4.43		1.22/ 2.26	
	Manufactured (Mobile) Home ⁷	1.12/1.03	1.41/1.84					2.36/4.43		1.22/2.26	
	Basement & Above ⁸				1.41/1.55		1.41/1.55		4.68/7.42		2.39/3.78
S	Enclosure & Abov				1.41/1.84	1	1.41/1.84		4.68 / 8.90		2.39/4.52
LOCATI	Lowest Floor Only – Above Ground Level				1.41 / 1.84		1.41/1.84		4.68 / 3.89		2.39/1.99
60	Lowest Floor Above Ground Level and Higher Floors				1.41 / 1.28		1.41/1.28		4.68/3.31		2.39/1.71
CONTENT	Above Ground Level – More Than 1 Full Floor				.35 / .12		.35/.12		.24/ .12		.24/ .12
Ľ	Manufactured (Mobile) Home ⁷								4.68/3.89		2.39/1.99

Swiss Re

Private Flood Insurance – Start with NFIP

10 STATES DOMINATE FLOOD PROGRAM

Of the nearly 5 million homes and businesses covered by the National Flood Insurance Program, about 80 percent are in 10 states.





SOURCE Federal Emergency Management Agency data for March 31, 2017 Janet Loehrke, USA TODAY **Future of Private Flood Insurance**

Surge Technology RiskScores Unique Basements Hurricane Regulation Models Events Historical Change Pluvial Products Global Flash Legislation Climate Losses Inland Maps Stand-Alone FloodZones Risks ElevatedRisks National Repetitive Education Carriers Reinsurance CommercialLines Harvey E&S Policy Elevation Storm PersonalLines Katrina Regional Endorsement Fluvial

US storm surge modeling



Inland flood modeling





Hurricane Harvey 2011 Land use data

Man Made Impacts – Importance of local data

- Largest city in the US without zoning laws.`
- Urban development has decreased the lands ability to absorb water.
- Between 1992 and 2010, around 30% of wetland area was lost to development.
- Significant development up to and around flood control dams.

Inland flood: managing adverse selection



Swiss Re flood toolkit



Swiss Re - Risk scoring setup

Graphical User Interface



Swiss Re

John Hageman | March 2020

Future of Private Flood Insurance



Future of Private Flood Insurance – Primary Carriers & Product Choices (Important for LA)

- Risk selection & Rating Plan: Homogeneous v Heterogeneous portfolio?
- Policy Type: Stand-Alone or Endorsement
- Opt-in v Opt-out
- Limit and Deductible
- Minimum Premium
- UW Manual
- Risk retention
- Accumulations





Future of Private Flood Insurance – Reinsurance, Regulators, Agents

Reinsurance:

- Reinsurer and Primary Carrier co-develop the product
- Primary carrier develops the product Syndicated Treaty
- Reinsurer education: work in progress

Regulators:

- Flood Rating & UW vs. Other Perils: They are not same.
- Standards vary by State

Agents:

- Important stakeholder
- Accumulations
- MGAs

Future of Private Flood Insurance – Technology, Information & Challenges

Technology

- First Floor Elevation
- Satellite Technology
- Insure-Tech
- Product Set-up

Information & Challenges:

- Detailed claims information
- Repetitive / Unique Risks
- Climate Change
- Evolving Models / Incorporating Technology
- Legislation / Regulatory Differences by Region
- Financial Institutions / Lender Requirements
 Swiss Re



We applaud Louisiana for their work with Protection Gap and we encourage continued efforts to ensure flood coverage for all.









Legal notice

©2019 Swiss Re. All rights reserved. You may use this presentation for private or internal purposes but note that any copyright or other proprietary notices must not be removed. You are not permitted to create any modifications or derivative works of this presentation, or to use it for commercial or other public purposes, without the prior written permission of Swiss Re.

The information and opinions contained in the presentation are provided as at the date of the presentation and may change. Although the information used was taken from reliable sources, Swiss Re does not accept any responsibility for its accuracy or comprehensiveness or its updating. All liability for the accuracy and completeness of the information or for any damage or loss resulting from its use is expressly excluded.

