## Estimating undisclosed flood risk in real estate transactions in Florida

Financial Implications for single-family home buyers

Commissioned by Natural Resources Defense Council (NRDC)

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## Purpose of Report

The Natural Resources Defense Council (NRDC) is a not-for-profit organization that engaged Milliman, Inc. (Milliman), an independent actuarial consulting firm, to study the potential amount of undisclosed flood risk in 25 states by estimating the total number of homes damaged by prior flooding.

## Background

Like most states, those in the study area generally do not have laws that effectively require that flood damage be disclosed in real estate transactions. Homes that have experienced flooding in the past are more likely to experience flood damage in the future, meaning buyers of previously damaged homes can unknowingly purchase homes that are at an increased risk of flooding relative to the average home. Milliman estimates that 4% of homeowners in the United States have any flood insurance coverage, potentially leaving unsuspecting buyers of previously damaged homes to be substantially more at risk of paying out of pocket for unexpected flood damages. Additionally, these home buyers could be less likely to purchase flood insurance without the awareness that a home had previously flooded or take actions to lower their risk of flood damage in the future such as raising the home or relocating important systems. Those home buyers who do purchase insurance may be subject to higher premiums to insure their homes than they had anticipated.

The following information is only specific information about the impact of flooding on the state. For a comparison of all the states in the study area as well as full details of the data sources and methodology used in the study, read the full report.

FIGURE 1: AVERAGE STANDARD AAL FOR DAMAGED HOME BY MSA

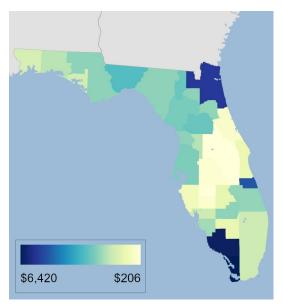


TABLE 1: RANKING OF KEY METRICS IN 25 STATE STUDY AREA

NFIP paid claims count	1 <sup>st</sup>
NFIP average claim amount	1 <sup>st</sup>
Percent of homes with prior flood damage	1 <sup>st</sup>
Home sales with prior flood damage	1 <sup>st</sup>
Average Standard AAL of home with prior flood damage	12 <sup>th</sup>
Total cost of flooding for sold homes with prior flood damage	1 <sup>st</sup>

## State Summary

Florida has the largest flood risk in the country with the highest number of NFIP policies, claims, and total paid claims. The NFIP has paid out \$4.8 billion in flood claims since 2010 in Florida. In Florida, our analysis estimates that 401,737 homes have been previously flooded between 2010-2024 (7.4% of all single-family homes) and 28,194 of those were subject to sale in 2023. Florida also has the most homes sold with previous flood damage, 28,194. The total expected annual cost of flooding for these sold homes (average AAL \* the home sales by MSA) is \$42,513,128.

#### FIGURE 2: SUMMARY STATISTICS ON NUMBER OF SINGLE-FAMILY HOMES

Total Single-Family Homes	5,427,166
Single-Family Homes with NFIP Claim (since 2010)	73,976
Estimated Single-Family Homes with Flood Damages	401,737
Estimated 2023 Home Sales with Flood Damages	28,194
Total Cost of Flooding	\$42,513,128

The map in Figure 1 shows the average Standard AAL for damaged homes by MSA across the state of Florida. The average Standard AAL for a previously damaged home varies from \$206 to \$6,420 depending on the MSA in Florida. This shows that the state average AAL of \$1,482 does not fully illustrate the potential financial impact for certain geographies.

In the analysis, three MSA's have a percent of homes with prior flood damage above 15%: Deltona-Daytona Beach-Ormond Beach, Orlando-Kissimmee-Sanford, and Wauchula, and there are six other MSA's with percentages above 10%. These MSA's represent 56% of the damaged homes in Florida while only representing 26% of the single-family homes.

Florida has the 13<sup>th</sup> largest difference in AAL, \$1,214, between a home that has been previously flooded and the state average for the Standard scenario. This dollar difference grows by 37% under the High scenario to \$1,668. Overall, the effect of climate change will adversely impact homeowners whose homes have already been flooded significantly more than the average homeowner in the state.

FIGURE 3: AVERAGE ANNUAL LOSS BY SCENARIO

#### **Climate Scenario**

	Standard	Medium	High	
AAL All Homes	\$268	\$313	\$407	
AAL Damaged Homes	1,482	1,653	2,076	

The total cost of flood damage over the life of a 15-year or 30-year period is expected to be a significant amount for a home with previous flood damage. If a home is occupied for 15 years in Florida, we would expect an average flood cost of \$22,231 over the 15-year period (\$22,231 = 15 \* \$1,482). This difference in flood costs highlights the importance of flood disclosure laws so that home buyers have a clear picture of the potential financial burden from flooding.

FIGURE 4: AVERAGE ANNUAL LOSS BY SCENARIO

#### **Climate Scenario**

Average Flood Cost	Standard	Medium	High
15 Year	\$22,231	\$24,796	\$31,135
30 Year	44,462	49,593	62,270

Limitations of this analysis can be found included within the full report.

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