

Datasets for Crumbling Foundations Research

Data Dictionary

Office of Policy and Management

Last updated October 13, 2021

Introduction

Crumbling Foundations in Connecticut

Homes in Connecticut built with concrete from the JJ Mottes Concrete Company in Stafford Springs between 1983-2015 may have crumbling foundations due to the possible presence of a naturally occurring iron sulfide, pyrrhotite, which causes the slow deterioration of the concrete when exposed to oxygen and water. The exact number of homes affected is unknown, but information on the State of Connecticut response can be found on the [Department of Housing website](#).

Data Collection Plan

[C.G.S. section 32-41qq](#) requires the Chief Data Officer to develop and implement a plan to collect the data necessary to conduct research regarding crumbling foundations. The Chief Data Officer, in consultation with several stakeholders, has begun to collect data relating to crumbling foundations, including town-level assessor's data and results from crumbling foundations testing programs. This document provides detail on the data collected by the Office of Policy and Management as of November 24, 2020.

Request Crumbling Foundations Data

C.G.S. section 32-41qq states that any data collected is confidential and exempt from the Freedom of Information Act. De-identified data may be made available for research purposes subject to review by the data owners identified in this document and data sharing agreements to maintain privacy and confidentiality of property information.

To request access to the datasets outlined in this document, contact the Chief Data Officer, Scott Gaul, at scott.gaul@ct.gov. Requests for access to de-identified data for research purposes should include the following: 1) a description of the proposed research project, including the intended purpose and methodology, 2) the data required for the research (specific fields, time horizon and geographic scope), 3) the names of individuals that will require access to de-identified data during the course of the research project, and 4) plans to ensure privacy and security for data during the course of the project. All data requests are subject to review and approval by the data owners for the requested datasets.

Dataset Overview & Metadata

OPM has compiled three primary datasets to support research into crumbling foundations: 1) Crumbling Foundations Testing Reimbursement Program Database, 2) Community Development Block Grant (CDBG) Crumbling Foundations Testing Database, 3) Assessors' Database Extracts for Towns Affected by Crumbling Foundations, and 4) Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC) Claims Database. An overview of each dataset is summarized below, followed by a summary of column metadata for each dataset, including the column name, description, data type, and allowable values (if applicable).

Table 1: Crumbling Foundations Testing Reimbursement Program Database

Title	Crumbling Foundations Testing Reimbursement Program Database
Description	An export from the Crumbling Foundations Testing Reimbursement Program Database funded by the Department of Housing (DOH) and administered by the Capitol Region Council of Governments (CRCOG).
Number of Rows	1,915
Geographic Unit	Address point
Temporal Coverage	November 2017 through January 2020
Source Link	https://www.foundationtesting.org/
Data Provided By	DOH
Data Owner	DOH
Data Contact	Lena Holleran
Contact Email	Lena.Holleran@ct.gov
Last Updated	1/7/2020
Update Frequency	Upon request

Table 2: Community Development Block Grant (CDBG) Crumbling Foundations Testing Database

Title	Community Development Block Grant (CDBG) Crumbling Foundations Testing Database
Description	An export from the database for the Crumbling Foundation Testing Program through the Small Cities Community Development Block Grant at DOH
Number of Rows	45
Geographic Unit	Address point
Temporal Coverage	Through January 2020 (test dates not provided, so start date not documented)
Source Link	https://portal.ct.gov/DOH/DOH/Programs/Small-Cities-Program
Data Provided By	DOH
Data Owner	DOH
Data Contact	Lena Holleran
Contact Email	Lena.Holleran@ct.gov
Last Updated	1/16/2020
Update Frequency	Upon request

Table 3: Assessors' Database Extracts for Towns Affected by Crumbling Foundations

Title	Assessors' Database Extracts for Towns Affected by Crumbling Foundations
Description	Extracts from municipal assessors' databases, collected and aggregated by the Office of Policy and Management (OPM)
Number of Rows	Data still being compiled
Geographic Unit	Parcel
Temporal Coverage	2019
Source Link	N/A
Data Provided By	Town assessors
Data Owner	OPM, Intergovernmental Policy and Planning Division
Data Contact	Jennifer Gauthier
Contact Email	Jennifer.Gauthier@ct.gov
Last Updated	In progress
Update Frequency	Annually

Table 4: Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC) Claims Database

Title	Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC) Claim Type 1: Indemnification Applications
Description	An extract from the Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC)claims database for Claim Type 1: Indemnification Applications.
Number of Rows	Data not yet available
Geographic Unit	Address point
Temporal Coverage	
Source Link	
Data Provided By	Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC)
Data Owner	Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC)
Data Contact	
Contact Email	
Last Updated	Data not yet available
Update Frequency	

Table 5: Crumbling Foundations Testing Reimbursement Database
- Column Descriptions

Index	Data element	Description	Data type	Allowable values (if applicable)
1	Application ID	ID number assigned to the application in the testing database	Numeric	
2	First Name	First name of applicant	Alpha	
3	Last Name	Last name of applicant	Alpha	
4	Email	Email address of applicant	Alpha	
5	Phone	Phone number of applicant	Alpha-numeric	
6	Contact Street Address	Street name of contact address for applicant	Alpha	
7	Contact Address Number	Street number of contact address for applicant	Numeric	
8	Contact Unit Number or PO Box	Unit number of PO box number of contact address for applicant	Alpha-numeric	
9	Contact City	City of contact address for applicant	Alpha	
10	ContactState	State of contact address for applicant	Alpha	
11	Contact Zip	Zip code of contact address for applicant	Numeric	
12	Home Street Address	Street name of home address for applicant	Alpha	
13	Home Address Number	Street number of home address for applicant	Alpha-numeric	
14	Home Unit Number	Unit number of home address for applicant	Alpha-numeric	
15	Home City	City of home address for applicant	Alpha	
16	Home Zip	Zip code of home address for applicant	Numeric	
17	Home State	State of home address for applicant	Alpha	
18	Date Home Built	Date or year home was built	Date	
19	Date Home Addition Built	Date or year home addition was built, if applicable	Date	
20	Test Date	Date of core test or visual inspection on home	Date	
21	Date Test Performed on Addition	Date of core test or visual inspection on home addition, if applicable	Date	
22	Addresses which Share the Foundation	Address or addresses that share the foundation of the home tested	Alpha	
23	Type of Test Performed	Type of test performed	Alpha	Petrographic analysis; Visual inspection
24	Lab/Engineer Contact	Name of lab/engineer contact for test	Alpha	
25	Lab/Engineer Phone	Phone number of lab/engineer contact for test	Numeric	
26	Lab/Engineer Email	Email address of lab/engineer contact for test	Alpha	
27	Test Lab Name	Name of lab that conducted test	Alpha	
28	Is the Engineer Licensed	Is the engineer who conducted the test licensed	Numeric	0 - No; 1 - Yes

Table 5: Crumbling Foundations Testing Reimbursement Database
 - Column Descriptions (*continued*)

Index	Data element	Description	Data type	Allowable values (if applicable)
29	Engineer License Number	License number of engineer	Alpha-numeric	
30	Test Result Files	Filenames of test result files	Alpha-numeric	
31	Proof of Ownership Files	Filenames of proof of ownership files	Alpha-numeric	
32	Additional Photos and Documentation	Filenames of additional photos and documentation	Alpha-numeric	
33	Documentation of Payment	Filenames of documentation of payment	Alpha-numeric	
34	Test Result Files	Filenames of additional test result files	Alpha-numeric	
35	Proof of Ownership Files	Filenames of additional proof of ownership files	Alpha-numeric	
36	Additional Photos and Documentation	Filenames of additional photos and documentation	Alpha-numeric	
37	Documentation of Payment	Filenames of additional documentation of payment	Alpha-numeric	
38	Application Status	Current status of application	Alpha	Approved - pending payment; Denied; On hold; Paid; Pending; Pending DoH approval
39	Comment	Any comments	Alpha	
40	Total Invoice for the Test	Total dollar amount invoiced for test	Numeric	
41	Date Application Submitted	Date application was submitted	Date	
42	Last Modification Date	Date of last modification to the application	Date	
43	Application Last Reviewed By	Name of last person to review application	Alpha	
44	Additional Reasons	Additional reasons application needs review	Alpha	
45	Date Paid	Date applicant was paid for test	Date	
46	Check Number	Check number	Numeric	
47	Check Amount	Check amount	Numeric	
48	Voucher Amount	Voucher amount	Numeric	
49	Check payable to	Check payable to	Alpha	
50	Was Damage Present?	Was damage present in visual inspection?	Numeric	0 - No; 1 - Yes
51	Was Pyrrhotite Present	Was pyrrhotite present in petrographic analysis?	Numeric	0 - No; 1 - Yes
52	Pyrrhotite Percent	Percent pyrrhotite present in petrographic analysis	Numeric	

Table 5: Crumbling Foundations Testing Reimbursement Database
 - Column Descriptions (*continued*)

Index	Data element	Description	Data type	Allowable values (if applicable)
53	Damage Level	Damage level of visual inspection	Alpha	Don't know; Minor degradation; Minor to moderate (repair suggested/recommended); Moderate to severe (significant repairs required); No visible signs; Severe (imminent threat of failure)
54	Damage Location	Damage location of visual inspection	Alpha	Concrete floor only; Floor and walls both; Wall only
55	House Features	Description of relevant house features	Alpha	
56	Number of Cores Tested	Number of cores tested in application	Numeric	
57	Prior Reimbursement	Details on any prior reimbursement for crumbling foundations testing	Alpha	
58	Automatic Duplication Warning	Indicator of duplication of application	Numeric	0 - No; 1 - Yes

Table 6: CDBG Testing Database - Column Descriptions

Index	Data element	Description	Data type	Allowable values (if applicable)
1	Street address	Street name and number of home address for applicant	Alpha-numeric	
2	Home city	City of home address for applicant	Alpha	
3	Type of test	Type of test performed	Alpha	Petrographic; Visual
4	Pyrrhotite percent	Percent pyrrhotite present in petrographic analysis	Alpha-numeric	
5	Number of cores tested	Number of cores tested in application	Numeric	
6	Damage level	Damage level of visual inspection	Alpha	
7	Damage location	Damage location of visual inspection	Alpha	
8	Date home built	Date or year home was built	Date	
9	Application ID	ID number assigned to the application in the CDGB database	Alpha-numeric	
10	Damage present	Was damage present in visual inspection?	Alpha	No; Yes

Table 7: Assessor's Database Extracts - Column Descriptions

Index	Data element	Description	Data type	Allowable values (if applicable)
1	Town Name	Name of town	Alpha	
2	Town ID	Town tax ID number	Alpha	1-169
3	AV PID	Unique ID number assigned by Vision CAMA software	Numeric	
4	Account Number	Unique ID for the parcel for billing purposes	Alpha-numeric	
5	Map	Map ID number from the municipality's Tax Assessor's Map	Numeric	
6	Block	Block ID number from the municipality's Tax Assessor's Map	Numeric	
7	Lot	Lot ID number from the municipality's Tax Assessor's Map	Alpha-numeric	
8	Unit	Unit ID number from the municipality's Tax Assessor's Map	Alpha-numeric	
9	Street Number	Street number of the property being valued	Alpha-numeric	
10	Street Name	Street name of the property being valued	Alpha	
11	Nhbd	Neighborhood identifier	Alpha-numeric	
12	Sale Date	Date on which the property was sold	Date	
13	Price	Sale price of the property	Numeric	
14	Q U	Qualified or unqualified sale	Alpha	Q; U
15	Val Code	Two-digit state code for valid or invalid transfers (e.g. invalid transfer could be foreclosure, partial interest, new construction, etc.)	Alpha-numeric	
16	L Num	Land line number of property	Numeric	
17	Use Code	Land use code for the property	Alpha-numeric	
18	Use Descript	Land use description for the property	Alpha	
19	Zone	Code to indicate the zoning district within which the property lies	Alpha	
20	Style Desc	Code indicating style of structure ("colonial", "ranch" etc.)	Alpha	
21	AYB	Actual year built for the main building	Numeric	
22	EYB	Effective year built for the main building (age at which the building performs or functions)	Numeric	
23	Func Obsol	Functional obsolescence - depreciation caused by factors relating to the property	Numeric	

Table 7: Assessor's Database Extracts - Column Descriptions (*continued*)

Index	Data element	Description	Data type	Allowable values (if applicable)
24	Econ Obsol	Economic obsolescence - depreciation caused by factors that are not on the property, in the property, or within the property lines	Numeric	
25	Percent Good	Estimate of value, expressed as a percentage, based on a property's acquisition cost or cost new, adjusted for depreciation and appreciation of all kinds	Numeric	
26	Fiscal Year	Fiscal year of assessed value formatted as YYYY	Numeric	
27	Total Appraised Parcel Value	Total appraised value for land and structures	Numeric	
28	Total Assessed Parcel Value	Total assessed value for land and structures	Numeric	
29	Land Area in Acres	Land area of parcel in acres	Numeric	
30	Living Area	Living area of structure in square feet (typically includes heated and cooled portions of the house, not including basements)	Numeric	
31	Grantee	Full name(s) of owner(s) of the property being valued	Alpha	
32	Owner Name	Full name(s) of owner(s) of the property being valued	Alpha	
33	Addtl Depreciation Code	Code for additional reasons for depreciation on the property	Alpha	AP - Abnormal physical; C3 - Commercial; MA - Market adjustment; PD - Physical deterioration; TL - Town line; UC - Under construction
34	Addtl Depreciation Percent	Estimate of value, expressed as a percentage, based on the additional reasons for depreciation	Numeric	

Table 8: Connecticut Foundation Solutions Indemnity Company, Inc. (CFSIC) Claims Database - Column Descriptions

Index	Data element	Description	Data type	Allowable values (if applicable)
1	Claimant Name	Full name of the claimant	Alpha	
2	Home Address	The address of the impaired foundation	Alpha	
3	Home City	Ttown the foundation is located in	Alpha	
4	Year Home Built	Year the home was built	Date	
5	Estimated Remediation Cost	Estimate of the actual proposed cost of remediation	Numeric	
6	Actual Remediation Cost	Exact proposed or actual cost of the remediation	Numeric	
7	CFSIC Participation Agreement	Whether or not the claimant has executed a Participation Agreement with CFSIC	Alpha	
8	Damage Level	Severity class code of each claimant's foundation (if known) according to CFSIC's objective severity class coding matrix	Alpha	
9	Building Type	Indicates whether a foundation sits on top of a single-family or multi-family home, condominium, or a PUD	Alpha	
10	Pyrrhotite Test	Indicates whether or not a pyrrhotite test was performed (not required if the visual examination documents a Severity Class 3 or 2 foundation)	Alpha	
11	Date Claim Closed	Date the claim was closed (foundation remediated)	Date	