

ICPSR 36955

**State of Michigan: Taking Action
on Flint Water Test Results,
2015-2017**

*Michigan Department of Health and
Human Services*

Codebook for Part 3 - School Testing Results

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ICPSR 36955

State of Michigan: Taking Action on Flint Water Test Results, 2015-2017

Variable Description and Frequencies

Note: Frequencies displayed for the variables are not weighted. They are purely descriptive and may not be representative of the study population. Please review any sampling or weighting information available with the study.

Summary statistics (minimum, maximum, mean, median, and standard deviation) may not be available for every variable in the codebook. Conversely, a listing of frequencies in table format may not be present for every variable in the codebook either. However, all variables in the dataset are present and display sufficient information about each variable. These decisions are made intentionally and are at the discretion of the archive producing this codebook.

School Testing Results

TESTINGTYPE: Testing Type (Pre-Fixture Replacement, Post-Filter Installation, or Post-Fixture Replacement)

Value	Label	Unweighted Frequency	%
1	Pre-Fixture Replacement	2980	35.5 %
2	Post-Filter Installation	3540	42.1 %
3	Post-Fixture Installation	1883	22.4 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

- Minimum: 1
- Maximum: 3

Location: 1-2 (width: 2; decimal: 0)

Variable Type: numeric

SAMPLENUMBER: Sample Number

Value	Label	Unweighted Frequency	%
LF91944	-	1	0.0 %
LF91945	-	1	0.0 %
LF91946	-	1	0.0 %
LF91947	-	1	0.0 %
LF91948	-	1	0.0 %
LF91949	-	1	0.0 %
LF91950	-	1	0.0 %
LF91951	-	1	0.0 %
LF91952	-	1	0.0 %
LF91953	-	1	0.0 %
LF91954	-	1	0.0 %
LF91955	-	1	0.0 %
LF91956	-	1	0.0 %
LF91957	-	1	0.0 %
LF91958	-	1	0.0 %
LF91959	-	1	0.0 %
LF91960	-	1	0.0 %
LF91961	-	1	0.0 %
LF91962	-	1	0.0 %
LF91963	-	1	0.0 %
LF91964	-	1	0.0 %

Value	Label	Unweighted Frequency	%
LF91965	-	1	0.0 %
LF91966	-	1	0.0 %
LF91967	-	1	0.0 %
LF91968	-	1	0.0 %
LF91969	-	1	0.0 %
LF91970	-	1	0.0 %
LF91971	-	1	0.0 %
LF91972	-	1	0.0 %
LF91973	-	1	0.0 %
LF91974	-	1	0.0 %
LF91975	-	1	0.0 %
LF91976	-	1	0.0 %
LF91977	-	1	0.0 %
LF91978	-	1	0.0 %
LF91979	-	1	0.0 %
LF91980	-	1	0.0 %
LF91981	-	1	0.0 %
LF91982	-	1	0.0 %
LF91983	-	1	0.0 %
LF91984	-	1	0.0 %
LF91985	-	1	0.0 %
LF91986	-	1	0.0 %
LF91987	-	1	0.0 %
LF91988	-	1	0.0 %
LF91989	-	1	0.0 %
LF91990	-	1	0.0 %
LF91991	-	1	0.0 %
LF91992	-	1	0.0 %
LF91993	-	1	0.0 %
	Total	8,403	100%

Please note that only the first 50 response categories are displayed in the PDF codebook. To view all response categories, please analyze the data file in the statistical package of your choice (SAS, SPSS, Stata, R).

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 3-12 (width: 10; decimal: 0)

Variable Type: character

ANALYSISPB: Analysis (Pb)

Value	Label	Unweighted Frequency	%
	-	2	0.0 %
* CF005 Copper quality control result was not within allowable limits due to matrix interference.	-	1	0.0 %
* Copper quality control results were outside allowed limits due to matrix interference	-	1	0.0 %
ANALYTE	-	1	0.0 %
Lead	-	8398	99.9 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 13-109 (width: 97; decimal: 0)

Variable Type: character

RESULT_LEAD: Results Lead (mg/L for Pre-Fixture Replacement, PPB for Post-Filter Installation and Post-Fixture Installation)

Value	Label	Unweighted Frequency	%
	-	5	0.1 %
.000	-	912	10.9 %
.001	-	263	3.1 %
.002	-	379	4.5 %
.003	-	210	2.5 %
.004	-	162	1.9 %
.005	-	109	1.3 %
.006	-	70	0.8 %
.007	-	64	0.8 %
.008	-	58	0.7 %
.009	-	49	0.6 %
.010	-	59	0.7 %
.011	-	61	0.7 %
.012	-	47	0.6 %
.013	-	32	0.4 %
.014	-	35	0.4 %
.015	-	32	0.4 %
.016	-	27	0.3 %
.017	-	26	0.3 %
.018	-	16	0.2 %
.019	-	16	0.2 %
.020	-	21	0.2 %
.021	-	12	0.1 %
.022	-	11	0.1 %

Value	Label	Unweighted Frequency	%
.023	-	19	0.2 %
.024	-	15	0.2 %
.025	-	12	0.1 %
.026	-	5	0.1 %
.027	-	12	0.1 %
.028	-	7	0.1 %
.029	-	9	0.1 %
.030	-	11	0.1 %
.031	-	4	0.0 %
.032	-	5	0.1 %
.033	-	5	0.1 %
.034	-	8	0.1 %
.035	-	5	0.1 %
.036	-	8	0.1 %
.037	-	2	0.0 %
.038	-	8	0.1 %
.039	-	3	0.0 %
.040	-	3	0.0 %
.041	-	4	0.0 %
.042	-	8	0.1 %
.043	-	3	0.0 %
.044	-	6	0.1 %
.045	-	1	0.0 %
.046	-	4	0.0 %
.047	-	4	0.0 %
.048	-	2	0.0 %
	Total	8,403	100%

Please note that only the first 50 response categories are displayed in the PDF codebook. To view all response categories, please analyze the data file in the statistical package of your choice (SAS, SPSS, Stata, R).

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 110-114 (width: 5; decimal: 0)

Variable Type: character

SAMPLEDESCRIPTION: Sample Description

Value	Label	Unweighted Frequency	%
	-	4	0.0 %
001CF001 ROOM 10	-	13	0.2 %
001CF001 ROOM10	-	1	0.0 %

Value	Label	Unweighted Frequency	%
001CF002 PRESCHOOL	-	14	0.2 %
001CF002B PRESCHOOL	-	4	0.0 %
001CF003 JR. KIDERGARTEN	-	4	0.0 %
001CF004 JR. KIDERGARTEN	-	4	0.0 %
001CF004 ROOM 11	-	4	0.0 %
001CF005 ROOM 12	-	4	0.0 %
001CF008 CLASSROOM 1	-	14	0.2 %
001CF008 ROOM 14	-	4	0.0 %
001CF009 CLASSROOM 10	-	4	0.0 %
001CF009 ROOM 15	-	4	0.0 %
001CF012 ROOM 16	-	4	0.0 %
001CF013 ROOM 109A	-	4	0.0 %
001CF014 ROOM 109A	-	14	0.2 %
001CF016 ROOM 102	-	4	0.0 %
001CF018 ROOM 103	-	14	0.2 %
001CF019 ROOM 106	-	14	0.2 %
001CF021 ROOM 104	-	4	0.0 %
001CF022 ROOM 6	-	4	0.0 %
001CF024 ROOM 1	-	4	0.0 %
001CF027 ROOM 5	-	4	0.0 %
001CF029 ROOM 2	-	4	0.0 %
001CF031 ROOM 4	-	4	0.0 %
001CF033 ROOM 3	-	4	0.0 %
001DW001 PRESCHOOL	-	4	0.0 %
001DW002 ROOM 10	-	4	0.0 %
001DW003 ROOM 11	-	4	0.0 %
001DW005 JR. KIDERGARTEN	-	4	0.0 %
001DW006 ROOM 12	-	14	0.2 %
001DW007 ROOM 14	-	4	0.0 %
001DW010 GYM EAST END	-	4	0.0 %
001DW010 ROOM 15	-	14	0.2 %
001DW010A GYM EAST END	-	4	0.0 %
001DW011 ROOM 16	-	4	0.0 %
001DW017 ROOM 103	-	4	0.0 %
001DW020 ROOM 104	-	4	0.0 %
001DW023 ROOM 6	-	14	0.2 %
001DW025 ROOM 1	-	4	0.0 %
001DW026 ROOM 5	-	4	0.0 %
001DW028 ROOM 2	-	4	0.0 %

Value	Label	Unweighted Frequency	%
001DW030 ROOM 4	-	14	0.2 %
001DW032 ROOM 3	-	14	0.2 %
001KC011 CAFETERIA KITCHEN	-	4	0.0 %
001KC012 YOUTH ROOM	-	14	0.2 %
001WC006 MAIN HALLWAY	-	4	0.0 %
001WC007 MAIN HALLWAY	-	4	0.0 %
001WC015 RIGHT OF CUSTODIAL ROOM	-	4	0.0 %
01 DW036 RM77	-	1	0.0 %
	Total	8,403	100%

Please note that only the first 50 response categories are displayed in the PDF codebook. To view all response categories, please analyze the data file in the statistical package of your choice (SAS, SPSS, Stata, R).

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 115-154 (width: 40; decimal: 0)

Variable Type: character

SITECODE: Site Code

Value	Label	Unweighted Frequency	%
	-	5	0.1 %
1-1	-	1	0.0 %
1-10	-	1	0.0 %
1-2	-	1	0.0 %
1-3	-	1	0.0 %
1-4	-	1	0.0 %
1-5	-	1	0.0 %
1-6	-	1	0.0 %
1-7	-	1	0.0 %
1-8	-	1	0.0 %
1-9	-	1	0.0 %
A 1	-	1	0.0 %
A 10	-	1	0.0 %
A 2	-	1	0.0 %
A 3	-	1	0.0 %
A 4	-	1	0.0 %
A 5	-	1	0.0 %
A 6	-	1	0.0 %
A 7	-	1	0.0 %
A 8	-	1	0.0 %
A 9	-	1	0.0 %

Value	Label	Unweighted Frequency	%
A1	-	9	0.1 %
A10	-	9	0.1 %
A2	-	9	0.1 %
A3	-	9	0.1 %
A4	-	9	0.1 %
A5	-	9	0.1 %
A6	-	9	0.1 %
A7	-	9	0.1 %
A8	-	9	0.1 %
A9	-	9	0.1 %
B 1	-	1	0.0 %
B 10	-	1	0.0 %
B 2	-	1	0.0 %
B 3	-	1	0.0 %
B 4	-	1	0.0 %
B 5	-	1	0.0 %
B 6	-	1	0.0 %
B 7	-	1	0.0 %
B 8	-	1	0.0 %
B 9	-	1	0.0 %
B1	-	9	0.1 %
B10	-	9	0.1 %
B2	-	9	0.1 %
B3	-	9	0.1 %
B4	-	9	0.1 %
B5	-	9	0.1 %
B6	-	9	0.1 %
B7	-	9	0.1 %
B8	-	9	0.1 %
	Total	8,403	100%

Please note that only the first 50 response categories are displayed in the PDF codebook. To view all response categories, please analyze the data file in the statistical package of your choice (SAS, SPSS, Stata, R).

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 155-163 (width: 9; decimal: 0)

Variable Type: character

ANALYSISCU: Analysis (Cu)

Value	Label	Unweighted Frequency	%
	-	4	0.0 %
ANALYTE	-	1	0.0 %
Copper	-	8244	98.1 %
Not Listed	-	154	1.8 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 164-173 (width: 10; decimal: 0)

Variable Type: character

RESULT_COPPER: Results Copper (mg/L for Pre-Fixture Replacement, PPB for Post-Filter Installation and Post-Fixture Installation)

Value	Label	Unweighted Frequency	%
	-	4	0.0 %
0	-	564	6.7 %
0.05	-	103	1.2 %
0.06	-	166	2.0 %
0.07	-	140	1.7 %
0.08	-	111	1.3 %
0.09	-	98	1.2 %
0.1	-	58	0.7 %
0.11	-	65	0.8 %
0.12	-	79	0.9 %
0.13	-	93	1.1 %
0.14	-	78	0.9 %
0.15	-	80	1.0 %
0.16	-	74	0.9 %
0.17	-	55	0.7 %
0.18	-	70	0.8 %
0.19	-	54	0.6 %
0.2	-	42	0.5 %
0.21	-	43	0.5 %
0.22	-	33	0.4 %
0.23	-	23	0.3 %
0.24	-	17	0.2 %
0.25	-	23	0.3 %
0.26	-	18	0.2 %
0.27	-	28	0.3 %
0.28	-	22	0.3 %

Value	Label	Unweighted Frequency	%
0.29	-	20	0.2 %
0.3	-	23	0.3 %
0.31	-	27	0.3 %
0.32	-	13	0.2 %
0.33	-	29	0.3 %
0.34	-	25	0.3 %
0.35	-	14	0.2 %
0.36	-	14	0.2 %
0.37	-	15	0.2 %
0.38	-	12	0.1 %
0.39	-	25	0.3 %
0.4	-	15	0.2 %
0.41	-	13	0.2 %
0.42	-	18	0.2 %
0.43	-	12	0.1 %
0.44	-	10	0.1 %
0.45	-	14	0.2 %
0.46	-	19	0.2 %
0.47	-	10	0.1 %
0.48	-	13	0.2 %
0.49	-	12	0.1 %
0.5	-	10	0.1 %
0.51	-	10	0.1 %
0.52	-	9	0.1 %
	Total	8,403	100%

Please note that only the first 50 response categories are displayed in the PDF codebook. To view all response categories, please analyze the data file in the statistical package of your choice (SAS, SPSS, Stata, R).

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 174-186 (width: 13; decimal: 0)

Variable Type: character

SITEDESCRIPTION: Site Description

Value	Label	Unweighted Frequency	%
	-	2	0.0 %
Eigth Sequential Sample	-	43	0.5 %
Fifth Sequential Sample	-	43	0.5 %
First Primary draw of 125 milliliters	-	344	4.1 %
First Sequential Sample	-	43	0.5 %

Value	Label	Unweighted Frequency	%
Flush Sample taken 2 minutes after First	-	9	0.1 %
Flush Sample taken 2 minutes after First Flush	-	116	1.4 %
Flush Sample taken 2 minutes after First Flush Sample	-	219	2.6 %
Flush Sample taken 30 Seconds after Second	-	125	1.5 %
Flush Sample taken 30 Seconds after Second Primary Draw	-	220	2.6 %
Forth Sequential Sample	-	43	0.5 %
Ninth Sequential Sample	-	43	0.5 %
Not Listed	-	5423	64.5 %
Not listed	-	1168	13.9 %
Second Primary draw of 125 milliliters	-	346	4.1 %
Second Sequential Sample	-	43	0.5 %
Seventh Sequential Sample	-	43	0.5 %
Site Code Description	-	1	0.0 %
Sixth Sequential Sample	-	43	0.5 %
Tenth Sequential Sample	-	43	0.5 %
Third Sequential Sample	-	43	0.5 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 187-241 (width: 55; decimal: 0)

Variable Type: character

SCH_NAME: School Name

Value	Label	Unweighted Frequency	%
Administration Building	-	212	2.5 %
Brownell STEM Academy	-	387	4.6 %
Cathedral of Faith Head Start	-	60	0.7 %
Central Kitchen	-	121	1.4 %
Cummings/Great Expectations Daycare	-	77	0.9 %
Doyle/Ryder Elementary	-	270	3.2 %
Durant Tuuri Mott Elementary	-	822	9.8 %
Eagles Nest Academy	-	100	1.2 %
Eisenhower Elementary	-	715	8.5 %
Flint Institute of Music	-	64	0.8 %
Flint Schools Central Kitchen	-	56	0.7 %
Flint Youth Theater	-	46	0.5 %
Freeman Elementary	-	949	11.3 %
Genesee STEM Academy	-	96	1.1 %
Holmes STEM Academy	-	707	8.4 %

Value	Label	Unweighted Frequency	%
Luke M. Powers Catholic HS	-	192	2.3 %
Manley School	-	194	2.3 %
Michigan School for the Deaf & Learning Resource Center	-	1118	13.3 %
Mott Early Childhood Learning	-	86	1.0 %
Neithercut Elementary School	-	228	2.7 %
New Standard Academy	-	252	3.0 %
Northridge Academy	-	46	0.5 %
Northwestern High School	-	206	2.5 %
Pierce Elementary	-	176	2.1 %
Potter Elementary	-	287	3.4 %
Richfield Elementary School	-	186	2.2 %
Southwestern Classical Academy	-	222	2.6 %
St. John Vianney School	-	192	2.3 %
St. Pius X School	-	86	1.0 %
Summerfield Academy	-	222	2.6 %
WAY Academy of Flint	-	28	0.3 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 242-300 (width: 59; decimal: 0)

Variable Type: character

SCH_CITY: School City

Value	Label	Unweighted Frequency	%
Flint	-	8403	100.0 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 301-305 (width: 5; decimal: 0)

Variable Type: character

SCH_ZIP: School Zip

Value	Label	Unweighted Frequency	%
48503	-	2908	34.6 %
48504	-	2476	29.5 %
48505	-	518	6.2 %
48506	-	649	7.7 %
48507	-	1593	19.0 %
48532	-	259	3.1 %

Value	Label	Unweighted Frequency	%
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

- Mean: 48505.30
- Median: 48504.00
- Mode: 48503.00
- Minimum: 48503
- Maximum: 48532
- Standard Deviation: 4.99

Location: 306-311 (width: 6; decimal: 0)

Variable Type: numeric

DATA CAPTURE TIME POINT: Data Capture Time Point

Value	Label	Unweighted Frequency	%
Post-Filter Installation	-	3540	42.1 %
Post-Fixture Replacement	-	1883	22.4 %
Pre-Fixture Replacement	-	2980	35.5 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 312-335 (width: 24; decimal: 0)

Variable Type: character

SAMPLING ASSESSMENT DATE: Sampling Assessment Date

Value	Label	Unweighted Frequency	%
	-	138	1.6 %
02-OCT-2015	-	56	0.7 %
03-DEC-2016	-	870	10.4 %
04-DEC-2015	-	463	5.5 %
04-JUN-2016	-	909	10.8 %
05-APR-2016	-	186	2.2 %
06-JAN-2016	-	32	0.4 %
06-NOV-2015	-	270	3.2 %
11-AUG-2016	-	60	0.7 %
11-DEC-2015	-	296	3.5 %
14-NOV-2015	-	266	3.2 %
15-SEP-2016	-	77	0.9 %
16-APR-2016	-	558	6.6 %
16-JAN-2016	-	194	2.3 %
18-JUL-2016	-	121	1.4 %

Value	Label	Unweighted Frequency	%
18-JUN-2016	-	110	1.3 %
19-MAR-2016	-	821	9.8 %
19-NOV-2016	-	485	5.8 %
21-NOV-2015	-	228	2.7 %
23-APR-2016	-	596	7.1 %
23-JAN-2016	-	248	3.0 %
23-OCT-2015	-	154	1.8 %
29-DEC-2015	-	222	2.6 %
30-DEC-2015	-	206	2.5 %
30-OCT-2015	-	345	4.1 %
31-OCT-2015	-	492	5.9 %
	Total	8,403	100%

Based upon 8,403 valid cases out of 8,403 total cases.

Location: 336-346 (width: 11; decimal: 0)

Variable Type: character