

**HOME REPAIR SAMPLING PLAN:
NEEDS ASSESSMENT MAIL SURVEY**

Overview

This memorandum details the process for drawing a probability sample (n=2,500) representing all City of St. Louis residential households where one or more of the owner-occupants is 60 years or older.

The data set from which the sample is drawn contains one record for each 60-or-older registered voter who has an ownership interest in a one-unit ("single family") or two-unit ("duplex") residence. Each record contains the street address, owner name, and census tract. For units having more than two owners, each owner is listed separately.

The City's census tracts are aggregated into 49 groups and divided into three median household income strata: low (<\$35,000), medium (=>\$35,000 and <\$56,000), and high (=>\$56,000) (see "City of St. Louis Census Tract Groups: Home Repair Needs Assessment Survey"). The sampling fraction will be approximately 125% of the overall fraction for the low stratum, 100% of the overall fraction for the medium stratum, and 75% of the overall fraction for the high stratum. The final sampling share was adjusted for the number of records (25,993) and the survey sample (2,500).

The plan:

Overall records:	25,993
Survey Sample Homeowners 60 and older:	2,500
Overall sampling fraction (2,500/25,993):	0.09618

Process

HOMEOWNERS 60 AND OLDER (N=25,993)

Calculate the shares for each income stratum: low (9,142), medium (5,925), and high (10,926).

1. Low-income sampling fraction of the overall sampling fraction is $(0.09618 + 0.024045)$ or 0.120.
Number of cases: $9,142 \times 0.120 = 1,125$.
2. Medium income sampling fraction of the overall sampling fraction is 0.09618.
Number of cases: $5,925 \times 0.09618 = 584$.
3. High income sampling fraction of the overall sampling fraction is $(0.09618 - 0.024045)$ or 0.072.
Number of cases is $10,926 \times 0.072 = 791$.

Table 1: Final Survey Sample Population

Group		Samplin g Fractio n	# Record s	Sample
1	low	0.120	9142	1125
2	med	0.096	5925	584
3	high	0.072	10926	791
			25993	2500

See next page for "City of St. Louis Census Tract Groups: Home Repair Needs Assessment Survey."

**CITY OF ST. LOUIS CENSUS TRACT GROUPS:
HOME REPAIR NEEDS ASSESSMENT SURVEY**

Tract(s)	Household N*	Income Category**
1011, 1012	2,652	High
1013, 1014	3,082	High
1015, 1018	2,935	Medium
1021, 1023	2,470	Medium
1022	2,947	High
1024, 1025	2,041	Medium
1031, 1038	3,473	High
1034, 1036, 1037	2,753	High
1042, 1045	3,175	High
1051.98, 1052, 1053	4,179	High
1054, 1061, 1066	3,624	Low
1062, 1063, 1064, 1065, 1067	3,871	Low
1072, 1073, 1269	3,692	Low
1074, 1075, 1076	2,420	Low
1081, 1082, 1083	3,036	Low
1096, 1097, 1270	2,569	Low
1101, 1102	2,054	Low
1103, 1104, 1105	2,434	Low
1111, 1112, 1113, 1115, 1193	4,168	Low
1121	2,434	High
1122, 1123	1,305	Low
1124	2,408	High
1135, 1272	3,151	Medium
1141.01	2,251	Medium
1141.02	2,132	High
1142	2,415	High
1143	2,660	High
1151, 1152	3,297	Medium
1153, 1154	3,051	Medium
1155	2,550	Low
1156, 1157	3,637	Low
1161, 1162, 1171	3,594	Medium
1163.01, 1165	3,195	High
1163.02, 1164	3,368	Low
1172, 1174	4,271	High
1171, 1181, 1184	1,946	Medium
1186, 1191.01	3,671	Medium
1191.02, 1192	2,944	High

Tract(s)	Household N*	Income Category**
1202, 1271, 1275	2,821	Low
1211, 1212	1,901	Low
1231, 1273	3,084	Medium
1232, 1276	3,132	High
1233, 1243	3,029	High
1241, 1242, 1246	3,669	Low
1255	2,745	Medium
1256	3,065	High
1257, 1267	3,167	Low
1268	1,838	Medium
1274	2,352	Medium

* Household N

All households based on the 2015-2019 American Community Survey.

** Income Category

Low: Median Household Income =<\$35,000;

Medium: Median Household Income >\$35,000 and <\$56,000

High: Median Household Income =>\$56,000

Source: All income estimates taken from the U.S. Census Bureau,
2015-2019 American Community Survey 5-Year Estimates