**How to fill in missing values?**

**Step 1 - ZIP**

Fill in 10935 to missing ZIP cells.

**Reason:** 10935 is the average of all non-blank cells ZIP column.

**Step 2 – LTFRONT, LOTDEPTH, BLDFRONT, BLDDEFPTH**

Filling in missing values and replace zero values by 40, 100, 30, 50, respectively.

**Reason:** 40, 100, 30, and 50 are the averages of all non-black and non-zero cells in LTFRONT, LOTDEPTH, BLDFRONT, BLDDEFPTH columns.

**Step 3 – FULLVAL, AVLAND, AVTOT**

Filling in missing values and replace zero values by 880,000, 86,000, 230,000.

**Reason:** 880,487.7, 85,995.0, and 230,758.2 are the averages of all non-blank cells in FULLVAL column.

**Step 4 – EXLAND, EXTOT**

Filling in missing values and replace zero values by 1620.

**Reason:** 1620 is the mode for EXLAND and EXTOT columns. 33.1% EXLAND value is 1620; 32.8% value of EXTOT is 1620.

**Step 5 – STORIES**

If STORIES=0, set it to average stories by zip code.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ZIP** | **STORIES** | **ZIP** | **STORIES** | **ZIP** | **STORIES** | **ZIP** | **STORIES** |
| 10001 | 11 | 10302 | 2 | 11201 | 11 | 11362 | 2 |
| 10002 | 6 | 10303 | 2 | 11203 | 2 | 11363 | 2 |
| 10003 | 10 | 10304 | 2 | 11204 | 2 | 11364 | 2 |
| 10004 | 36 | 10305 | 2 | 11205 | 4 | 11365 | 2 |
| 10005 | 33 | 10306 | 2 | 11206 | 4 | 11366 | 2 |
| 10006 | 32 | 10308 | 2 | 11207 | 3 | 11367 | 3 |
| 10007 | 14 | 10310 | 2 | 11208 | 3 | 11368 | 3 |
| 10009 | 6 | 10312 | 2 | 11209 | 3 | 11369 | 2 |
| 10010 | 21 | 10314 | 2 | 11210 | 3 | 11370 | 2 |
| 10011 | 10 | 10451 | 4 | 11211 | 6 | 11372 | 3 |
| 10012 | 6 | 10452 | 3 | 11212 | 2 | 11373 | 3 |
| 10013 | 8 | 10453 | 3 | 11213 | 3 | 11374 | 6 |
| 10014 | 9 | 10454 | 3 | 11214 | 3 | 11375 | 4 |
| 10016 | 25 | 10455 | 3 | 11215 | 4 | 11377 | 2 |
| 10017 | 30 | 10456 | 3 | 11216 | 3 | 11378 | 2 |
| 10018 | 22 | 10457 | 4 | 11217 | 4 | 11379 | 2 |
| 10019 | 33 | 10458 | 3 | 11218 | 3 | 11385 | 2 |
| 10020 | 48 | 10459 | 3 | 11219 | 3 | 11411 | 2 |
| 10021 | 24 | 10460 | 3 | 11220 | 3 | 11412 | 2 |
| 10022 | 25 | 10461 | 2 | 11221 | 3 | 11413 | 2 |
| 10023 | 26 | 10462 | 8 | 11222 | 3 | 11414 | 2 |
| 10024 | 10 | 10463 | 5 | 11223 | 2 | 11415 | 4 |
| 10025 | 14 | 10464 | 2 | 11224 | 10 | 11416 | 2 |
| 10026 | 10 | 10465 | 2 | 11225 | 3 | 11417 | 2 |
| 10027 | 5 | 10466 | 2 | 11226 | 3 | 11418 | 3 |
| 10028 | 15 | 10467 | 3 | 11228 | 2 | 11419 | 2 |
| 10029 | 6 | 10468 | 4 | 11229 | 2 | 11420 | 2 |
| 10030 | 6 | 10469 | 2 | 11230 | 3 | 11421 | 2 |
| 10031 | 5 | 10470 | 2 | 11231 | 3 | 11422 | 2 |
| 10032 | 6 | 10471 | 3 | 11232 | 3 | 11423 | 2 |
| 10033 | 5 | 10472 | 2 | 11233 | 3 | 11426 | 2 |
| 10034 | 5 | 10473 | 3 | 11234 | 2 | 11427 | 2 |
| 10035 | 7 | 10474 | 2 | 11235 | 4 | 11428 | 2 |
| 10036 | 34 | 10475 | 2 | 11236 | 2 | 11429 | 2 |
| 10037 | 4 | 10803 | 3 | 11237 | 3 | 11432 | 3 |
| 10038 | 19 | 11001 | 2 | 11238 | 4 | 11433 | 2 |
| 10039 | 8 | 11004 | 2 | 11239 | 3 | 11434 | 2 |
| 10040 | 6 | 11040 | 2 | 11243 | 41 | 11435 | 3 |
| 10044 | 16 | 11101 | 6 | 11354 | 5 | 11436 | 2 |
| 10065 | 23 | 11102 | 6 | 11355 | 6 | 11691 | 3 |
| 10069 | 35 | 11103 | 3 | 11356 | 2 | 11692 | 2 |
| 10075 | 22 | 11104 | 3 | 11357 | 2 | 11693 | 3 |
| 10128 | 25 | 11105 | 2 | 11358 | 2 | 11694 | 3 |
| 10280 | 27 | 11106 | 3 | 11360 | 6 | 10935 | 4 |
| 10301 | 3 | 11109 | 18 | 11361 | 2 |  |  |