# SF3Prep Quick Reference

**Version 4.0.1**

**Revision History**
1/8/2010 Edited by AECOM Consult, Inc.
4/15/2010 Edited by RSG, Inc.

Syntax:

### *SF3Prep [-flag] [control_file]*

Purpose:

1. Extract data from one or more sets of Census SF3 geography and segment files into a TRANSIMS zone file;
2. Add Census SF3 data from an additional state or county to an existing zone file;
3. Select counties to include in the output file using a state-county list;
4. Select a geographic summary level to include in the output file; and
5. Define zone data fields to include in the output file.

## *Required Keys*

| | |
|---|---|
| SF3_GEOGRAPHY_FILE (1) | [project_directory]*filename* |
| SF3_SEGMENT_FILE (2) | [project_directory]*filename* |
| NEW_ZONE_DATA_FILE | [project_directory]*filename* |
| ZONE_DATA_FIELD_RANGE_* | *field_name, type, offset, length* [*, decimal*] (3) |

## *Optional Keys*

| | |
|---|---|
| TITLE | Text |
| REPORT_FILE | *Filename* |
| REPORT_FLAG | FALSE {true/false/yes/no/1/0} |
| MAX_WARNING_MESSAGES | 100,000 |
| MAX_WARNING_EXIT_FLAG | TRUE {true/false/yes/no/1/0} |
| PROJECT_DIRECTORY | *Pathname* |
| DEFAULT_FILE_FORMAT | VERSION3 {(4)} |
| SF3_GEOGRAPHY_FILE_* (1) | [project_directory]*filename* |
| SF3_SEGMENT_FILE_* (2) | [project_directory]*filename* |
| ZONE_DATA_FILE | [project_directory]*filename* |
| STATE_COUNTY_LIST | All {SSCCC, …} (5) |
| SF3_SUMMARY_LEVEL | 90 {10..100} (6) |
| ZONE_DATA_FORMAT | VERSION3 {(4)} |
| NEW_ZONE_DATA_FORMAT | VERSION3 {(4)} |

## Notes

| | |
|---|---|
| 1 | At least one SF3 geography file is required. The SF3_GEOGRAPHY_FILE and/or SF3_GEOGRAPHY_FILE_* key can be used. |
| 2 | At least one SF3 segment file is required. The SF3_SEGMENT_FILE and/or SF3_SEGMENT_FILE_* key can be used. The selected data items define the segment ID. A separate segment file is required for each segment ID to be read. |
| 3 | These keys map data fields in the SF3 file to data fields in the output zone data file. The first range field identifies a specific field or table name in the SF3 file. The second range defines the field names used in the output zone file. If the second range is not provided, the field name in the SF3 file is used for the zone file. The SF3 fields or table names can be extracted from the SF3 geography file (e.g., STATE, COUNTY, TRACT, BLKGRP, etc.) or from one of the 76 segment files. The segment fields are a combination of a table name and a field number within the table. For example, P013003..10 refers to the values 3 through 10 in table P013. These are the eight household age range values summarized for family household types. If the second range is set as HH_AGE1..8, the output zone file will contain 8 fields with field names HH_AGE1, HH_AGE2 … HH_AGE8. |
| 4 | {VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3} |
| 5 | The state abbreviation or FIPS code followed by the county FIPS code. For example, the code for Fairfax County (FIPS=059), Virginia (FIPS=51) is 51059 or VA59. |
| 6 | 10=United States, 20=Regions, 30=Divisions, 40=State, 50=County, 60=County Subdivision, 70=Place, 80=Census Tract, 90=Block Group, 100=Blocks |