



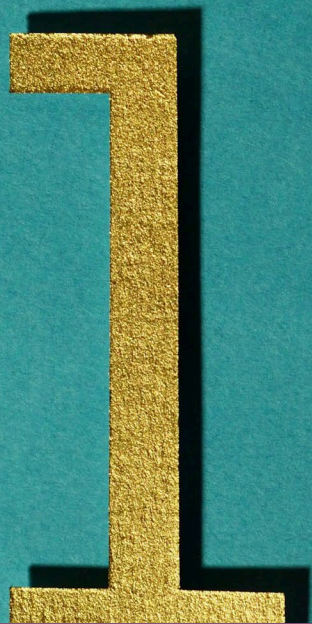
September 9, 2025

Welcome to Office Hours: Tools to Validate Census Block Data



Agenda

- **Intro**
 - Census Block Data
 - Data Validation: Techniques & Tools
- **Data Pipeline**
 - General Information
 - Retrieve an Error Report
 - At-Risk Interchange Business Rules
 - Troubleshooting an Error Report
 - Demonstration
- **Resources**
 - Default Coding Patterns
 - School Auditing Office
 - Data Pipeline



Introduction

Census Block Data:

4 Components

1. State Code
2. County Code
3. Tract Code
4. Block Code

Using all **4 components** gives each household a **specific, unique coding pattern**:

- Piecemealing components together most likely will result in an inaccurate Census block data
- It's possible to have many combinations with the same tract and block codes within the same county code

Data Validation: Techniques & Tools

- Validating Addresses
 - Step 4 of [Census Geocoder Tool Instructions](#)
 - [Office Hours: Census Geocoder Deep Dive slide deck](#)
 - Longitude/latitude coordinates
 - Geoapify
- Error Report
 - Data Pipeline
 - Business Rules

Instructions Document

All of the information from today's training can be found in the [Instructions for Using the Census Geocoder Tool](#) document located on the [At-Risk Interchange website](#).

Additional Resources

- [Instructions for Using the Census Geocoder Tool \(PDF\)](#)
- [Valid Census Block Data Combinations \(XLS\)](#)





Data Pipeline Error Report

Data Pipeline Error Report Extract

- Navigate to the [Data Pipeline Webpage](#) and login
- Find “Pipeline Reports” on the lefthand menu
 - Click “Error Report”
 - **Dataset:** At Risk Measure Interchange
 - **File Type:** At Risk Measure Interchange
 - **School Year:** 2025-26
 - **Organization/LEA:** [Your district]
 - **Error Type:** Errors and Warnings
 - Errors must be corrected
 - Warnings need investigation but could be okay
 - Click “Search”
- Match error codes with those found on the At-Risk Interchange [Business Rules](#) to troubleshoot

Data Pipeline:

At-Risk Interchange Website, cont.

The first half of the [At-Risk Interchange website](#) has information related to Deadlines, File Layout, Business Rules, and File Template.

Deadlines

The At-Risk Interchange will open July 16th, 2025 and close on November 10th, 2025. This interchange will only be available during the Student October Collection.

- [2025-2026 At-Risk Interchange File Timeline \(PDF\)](#)

File Layout and Definitions

- [2025-2026 At-Risk Interchange File Layout \(PDF\)](#)

Business Rules

- [2025-2026 At-Risk Interchange Business Rules \(XLSX\)](#)



Templates

- [2025-2026 At-Risk Interchange File Template \(XLSX\)](#)



Business Rules:

Trigger an error if not followed

| Data Element | Error Code | Error Type | Message |
|-----------------|------------|------------|---|
| ARM_COUNTY_CODE | AR06 | Error | County Code must be a 3 digit number and is required. |
| ARM_COUNTY_CODE | AR07 | Error | If County Code = '000', then the Tract Code and Block Code must follow one of the Missing Census Block Data coding patterns described on the file layout. |
| BLOCK_CODE | AR09 | Error | Block Code must be a 4 digit number and is required. |
| DISTRICT_CODE | AR01 | Error | District Number is invalid. |
| DISTRICT_CODE | AR02 | Error | District Code on file must match reporting district code on file upload screen. Please select the correct district code when uploading this file. |
| SASID | 99999 | Error | The SASID is invalid or name, birth date, or gender does not match what is in the RITS system for the entered SASID. |
| SASID | AR03 | Error | SASID duplicates not allowed. *[Will cause significant issues with your Student October Snapshot] |
| SASID | AR04 | Error | The SASID must be a 10 digit number. |
| SASID | AR10 | Error | SASID is mandatory. |
| STATE_CODE | AR05 | Error | State Code must be a 2 digit number ('08' only) and is required. Please refer to the At-Risk Interchange File Layout for out of state student coding. |
| TRACT_CODE | AR08 | Error | Tract Code must be a 6 digit number and is required. |
| TRACT_CODE | AR11 | Error | The submitted census block data (State Code, County Code, Tract Code, and Block Code) are not a valid combination. The submitted combination is not a valid census block location. Refer to the At-Risk Interchange Data Pipeline website for a list of valid census block data combinations. |

AR01, AR04, AR05, AR06, AR08, AR09, AR10

- AR01: District number is invalid.
- AR04: The SASID must be a 10 digit number.
- AR05: State Code must be a 2 digit number ('08' only) and is required. Please refer to the At-Risk Interchange File Layout for out of state student coding.
- AR06: County Code must be a 3 digit number and is required.
- AR08: Tract Code must be a 6 digit number and is required.
- AR09: Block Code must be a 4 digit number and is required.
- AR10: SASID is mandatory.

AR02, AR03, 99999

- AR02: District Code on file must match reporting district code on file upload screen. Please select the correct district code when uploading this file.
- AR03: SASID duplicates not allowed. *[Will cause significant issues with your Student October Snapshot]
- 99999: The SASID is invalid or name, birth date, or gender does not match what is in the RITS system for the entered SASID.

AR07,

- AR07: If County Code = '000', then the Tract Code and Block Code must follow one of the Missing Census Block Data coding patterns described on the file layout.

AR11

- AR11: The submitted census block data (State Code, County Code, Tract Code, and Block Code) are not a valid combination. The submitted combination is not a valid census block location. Refer to the At-Risk Interchange Data Pipeline website for a list of valid census block data combinations.

Additional Resources

- [Instructions for Using the Census Geocoder Tool \(PDF\)](#)
- [Valid Census Block Data Combinations \(XLS\)](#)





Demonstration





Resources

Coding Patterns

Districts unable to obtain Census block data for a given address may use one of the following coding patterns:

| Description | State Code | County Code | Track Code | Block Code |
|---|------------|-------------|------------|------------|
| Address on File- Did Not Attempt to Obtain Census Block Data: The district has a primary physical address on file but did NOT attempt to obtain census block data using the geocode tool. | 08 | 000 | 000001 | 0001 |
| Address on File- No Census Block Data Returned: The district confirmed that the primary physical address is valid using USPS but the geocode tool did not return census block data. | 08 | 000 | 000002 | 0002 |
| Confidentiality Program: No census block data was provided because the district has confirmed the student is participating in a confidentiality program. | 08 | 000 | 000003 | 0003 |
| No Physical Primary Address on File- Identified Group: The district does not have a valid primary physical address on file and the student is confirmed homeless, migrant, foster child, or attending a detention center | 08 | 000 | 000004 | 0004 |
| No Physical Primary Address on File- No Identified Group: The district does not have a valid primary physical address on file and the student is not confirmed homeless, migrant, foster child, or attending a detention center. | 08 | 000 | 000005 | 0005 |
| Out of State codes: The district has a primary physical address on file that is not in Colorado | 08 | 000 | 000006 | 0006 |

Resources: CDE & Others

CDE Resources

- Training
 - [At-Risk Interchange webpage](#)
 - **Office Hours: Questions from the Field: Live Q & A 10/9 at 1pm**
 - [School Auditing Office Training webpage](#)
- [Geocoder Instructions](#)
- [School Auditing Office At-Risk Count webpage](#)
- Contact: ARMeasure@cde.state.co.us

Other Resources

- [Census Geocoder User Guide, FAQ, etc.](#)
- [Geoapify](#)

