# Which counties survive the join?

Joining broadband coverage to county income requires knowing which geography each source can support.

**3,212**

**county codes in both releases**

## What the join covers

The shared codes link both source tables. Another 29 occur on just one side and need a separate record.

## Publication decision

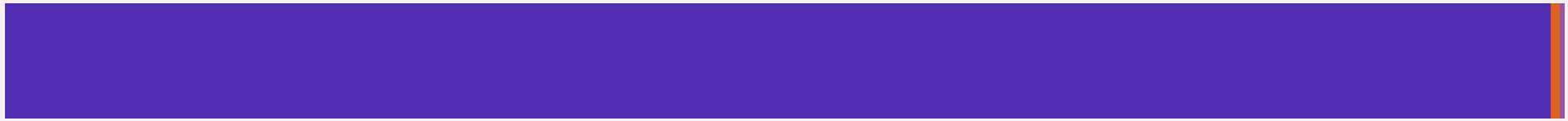
Publish the matched scope and retain both exception lists for a geography owner to investigate.

Source: saved FCC and Census ACS county-code releases.

# Count the full geography first

A full outer join establishes the denominator before an inner join drops any county or county-equivalent codes.

ALL UNIQUE CODES



**3,212 matched** **3,241 total**

EXPANDED VIEW OF THE 29 EXCEPTIONS

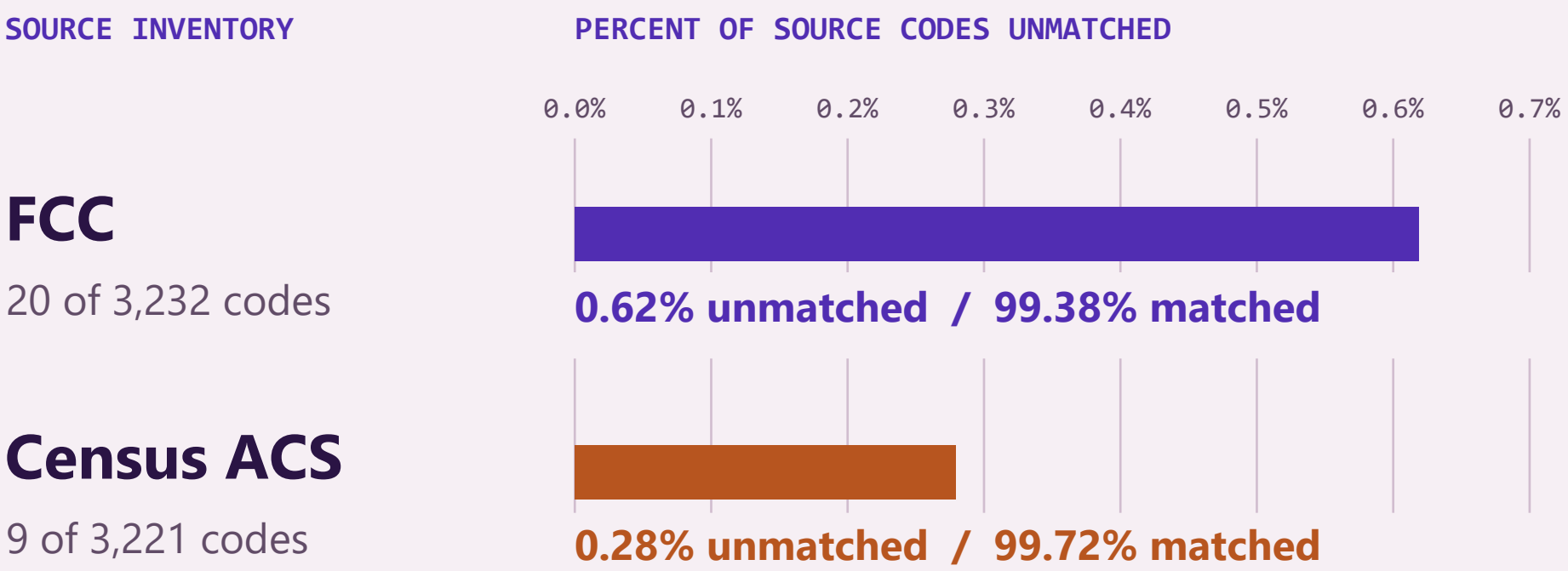


**20 FCC only** **9 Census only**

One mark in the expanded view represents one code. The upper bar uses the full 3,241-code denominator.

# Coverage depends on the source

The unmatched count uses the release it came from as its denominator. Both unmatched shares use the same zero-based scale.




The numerator is one-sided distinct codes. A matching code does not by itself establish identical geographic boundaries.

# Route codes by source presence

Reduce both releases to distinct county keys, then record whether each key appears in each source.

| FCC | CENSUS | DISTINCT CODES | OUTPUT |
|---|---|---|---|
| Yes | Yes | 3,212 | **Joined release**<br>Publish matched coverage |
| Yes | No | 20 | **FCC-only list**<br>Check code and vintage |
| No | Yes | 9 | **Census-only list**<br>Check code and vintage |

**Control total** 3,212 + 20 + 9 = 3,241 distinct codes

Source: saved FCC and Census ACS county-code releases.

# Release the coverage and the exceptions

The crosswalk answers which IDs can be joined. Resolving boundary changes requires geography and release-vintage evidence.

| | |
|---|---|
| **Report coverage** | State 3,212 matches across 3,232 FCC codes and 3,221 Census codes. |
| **Preserve both lists** | Send 20 FCC-only and 9 Census-only codes to the geography owner. |
| **Review geography** | Compare source vintages and county-equivalent changes before remapping any exception. |

**Scope: Connecticut geography changes account for part of the mismatch. The evidence does not attribute every unmatched code to a specific cause.**

Source: saved FCC and Census ACS county-code releases.