# 03_canada_visitor_entries_cleaning_eda

December 27, 2025

## 1 Canada Visitor Entries Cleaning and EDA

**Data Source:** Stats Canada Table 24-10-0050-01 - Canada-wide (manually extracted)<br>
**Location:** `data/interim/nonresident_visitors_canada_manual.csv`<br>
**Purpose:** Clean, validate, and perform EDA on Canada-wide visitor entries data<br>
**Date:** December 2025

### 1.1 Objectives

1. Clean and validate Canada-wide visitor entries data
2. Validate against Travel Manitoba Q4 2024 & Q1 2024 infographics
3. Explore trends by country of residence
4. Prepare dataset for Power BI dashboard

### 1.2 Setup

[14]:

```python
# Path setup
import sys
from pathlib import Path
project_root = Path.cwd().parent
sys.path.insert(0, str(project_root / 'scripts'))
from paths import raw, processed, interim
```

[15]:

```python
# Libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from datetime import datetime

# Plotting style
plt.style.use('seaborn-v0_8-darkgrid')
sns.set_palette('husl')
%matplotlib inline

# Display options
pd.set_option('display.max_columns', None)
pd.set_option('display.float_format', '{:,.0f}'.format)
```

```
print('  Libraries loaded')
```

```
 Libraries loaded
```

## 1.3 Part 1: Data Loading & Cleaning

### 1.3.1 1.1 Load Raw Data

[16]:

```
csv_path = interim() / 'nonresident_visitors_canada_manual.csv'

if not csv_path.exists():
    print(f'ERROR: File not found at {csv_path}')
else:
    print(f'  Found: {csv_path}')
    print(f'   Size: {csv_path.stat().st_size:,} bytes')
```

```
 Found: /Users/dpro/projects/travel_manitoba/data/interim/nonresident_visitors_
canada_manual.csv
  Size: 18,980 bytes
```

[17]:

```
# Load CSV
df_raw = pd.read_csv(csv_path, encoding='utf-8-sig')

print('RAW DATA')
print('='*80)
print(f'Shape: {df_raw.shape}')
print(f'\nFirst 8 rows:')
df_raw.head(8)
```

```
RAW DATA
================================================================================
Shape: (38, 71)

First 8 rows:
```

[17]:

```
                              Country of residence 2     Jan-20     Feb-20  \
0              Non-resident visitors entering Canada  1,567,317  1,595,707
1  United States of America residents entering Ca…  1,201,690  1,281,300
2  Residents of countries other than the United S…    365,627    314,407
3  Americas, countries other than the United Stat…     63,362     55,995
4  North America, countries other than the United…     30,836     27,304
5                                    Central America      2,439      2,212
6                                          Caribbean     10,846      9,746
7                                      South America     19,241     16,733

    Mar-20  Apr-20  May-20   Jun-20   Jul-20   Aug-20   Sep-20   Oct-20  \
0  760,252  67,654  86,362  121,524  141,772  158,664  147,777  139,916
1  610,781  51,042  72,078  101,607  113,414  120,824  112,980  112,513
```

```
2  149,471  16,612  14,284   19,917   28,358   37,840   34,797   27,403
3   31,895  10,019   7,187    8,012    7,323    7,237    4,463    3,599
4   16,864   5,840   3,223    4,029    4,138    3,496    1,990    1,443
5    1,210   1,338   2,130    1,931      563      705      409      358
6    5,845   2,704   1,693    1,672    2,200    2,452    1,211      831
7    7,976     137     141      380      422      584      853      967

    Nov-20   Dec-20   Jan-21   Feb-21   Mar-21   Apr-21   May-21   Jun-21  \
0  127,159  154,246  120,921  101,655  123,583  130,634  140,287  162,940
1   98,444  113,887   86,456   75,398   95,943   95,634  113,451  128,447
2   28,715   40,359   34,465   26,257   27,640   35,000   26,836   34,493
3    4,316    6,434    7,637    5,606    8,706   12,826    9,313    9,754
4    1,397    2,035    4,013    2,710    5,117    7,566    4,138    4,045
5      503      479      548      709    1,073    1,832    1,908    1,987
6    1,111    1,656    1,659      691    1,993    2,834    2,032    2,223
7    1,305    2,264    1,417    1,496      523      594    1,235    1,499

    Jul-21   Aug-21   Sep-21   Oct-21   Nov-21   Dec-21   Jan-22   Feb-22  \
0  258,469  600,982  671,662  649,352  560,271  761,360  298,217  419,837
1  194,799  509,669  518,223  488,616  439,089  550,264  218,558  314,845
2   63,670   91,313  153,439  160,736  121,182  211,096   79,659  104,992
3    9,842   11,640   20,237   23,891   23,619   46,126   20,054   24,196
4    3,459    4,139    8,106   11,288   12,522   22,485   11,367   13,876
5    1,307    1,145    1,477    1,516    1,171    1,723    1,048    1,358
6    3,071    3,654    4,742    5,170    4,674    9,605    2,905    3,232
7    2,005    2,702    5,912    5,917    5,252   12,313    4,734    5,730

    Mar-22     Apr-22     May-22     Jun-22     Jul-22     Aug-22     Sep-22  \
0  614,160  1,001,313  1,428,129  2,188,742  2,814,980  2,515,454  2,029,087
1  465,235    759,600  1,112,682  1,724,681  2,193,729  1,968,894  1,560,470
2  148,925    241,713    315,447    464,061    621,251    546,560    468,617
3   36,112     58,636     56,410     80,835     96,836     81,498     70,778
4   21,364     32,025     28,502     38,753     48,103     40,951     37,310
5    2,014      3,979      3,217      4,187      3,857      3,063      2,861
6    5,974     11,338      8,542     13,731     18,565     17,023     12,000
7    6,760     11,294     16,149     24,164     26,311     20,461     18,607

      Oct-22     Nov-22     Dec-22     Jan-23     Feb-23     Mar-23  \
0  1,755,938  1,268,343  1,589,448  1,107,737  1,200,979  1,382,309
1  1,388,757  1,036,655  1,221,069    866,679    945,125  1,094,111
2    367,181    231,688    368,379    241,058    255,854    288,198
3     58,893     53,155     88,933     55,245     57,871     74,654
4     30,811     28,054     49,637     32,031     34,056     42,446
5      2,189      1,955      2,965      2,503      2,343      3,226
6     10,356      8,182     16,449      8,378      9,554     11,203
7     15,537     14,964     19,882     12,333     11,918     17,779
```

```
     Apr-23    May-23    Jun-23    Jul-23    Aug-23    Sep-23  \
0 1,674,026 2,377,019 3,354,384 3,998,113 3,605,712 2,857,225
1 1,300,810 1,831,775 2,652,705 3,130,621 2,834,744 2,174,918
2   373,216   545,244   701,679   867,492   770,968   682,307
3    92,600    90,704   116,307   141,603   137,941   115,783
4    56,789    49,022    56,882    69,296    74,056    47,360
5     5,116     4,851     6,796     6,769     5,102     5,636
6    15,742    14,952    20,841    28,585    29,411    18,966
7    14,953    21,879    31,788    36,953    29,372    43,821

     Oct-23    Nov-23    Dec-23    Jan-24    Feb-24    Mar-24  \
0 2,138,008 1,520,059 1,993,965 1,189,366 1,459,708 1,682,944
1 1,628,185 1,219,676 1,524,595   910,621 1,127,588 1,336,056
2   509,823   300,383   469,370   278,745   332,120   346,888
3    79,856    68,002   125,278    67,502    73,312    79,114
4    38,637    33,572    69,804    39,925    44,813    36,592
5     4,104     3,412     5,280     3,524     3,215     4,486
6    15,218    11,831    23,669    10,537    11,583    15,009
7    21,897    19,187    26,525    13,516    13,701    23,027

     Apr-24    May-24    Jun-24    Jul-24    Aug-24    Sep-24  \
0 1,886,774 2,687,964 3,643,749 4,260,020 4,007,080 2,882,158
1 1,476,081 2,072,414 2,897,819 3,353,349 3,195,854 2,198,468
2   410,693   615,550   745,930   906,671   811,226   683,690
3    71,999    84,859   109,670   123,899   115,404    91,587
4    33,200    33,415    38,466    46,734    47,172    31,326
5     6,573     6,923     8,818     6,929     5,885     6,086
6    15,679    17,936    24,360    30,534    30,590    19,803
7    16,547    26,585    38,026    39,702    31,757    34,372

     Oct-24    Nov-24    Dec-24    Jan-25    Feb-25    Mar-25  \
0 2,252,283 1,734,045 2,132,061 1,414,635 1,391,190 1,587,932
1 1,760,987 1,448,685 1,685,491 1,105,027 1,076,683 1,257,520
2   491,296   285,360   446,570   309,608   314,507   330,412
3    68,478    61,664    97,319    60,640    57,328    68,389
4    24,055    22,799    41,743    28,798    27,247    29,990
5     4,837     3,544     5,702     4,646     3,415     4,301
6    17,125    11,545    21,765    10,899    11,201    12,991
7    22,461    23,776    28,109    16,297    15,465    21,107

     Apr-25    May-25    Jun-25    Jul-25    Aug-25    Sep-25    Oct-25
0 1,824,703 2,595,836 3,571,205 4,250,749 4,037,165 2,876,327 2,363,398
1 1,360,708 1,969,363 2,786,594 3,251,100 3,151,192 2,142,122 1,814,406
2   463,995   626,473   784,611   999,649   885,973   734,205   548,992
3    88,195    85,126   116,139   139,696   128,247    88,343    73,653
4    41,905    31,407    37,453    50,484    52,790    30,593    25,301
5     8,122     7,449    10,115     9,532     7,598     6,949     5,808
```

```
6      18,841      18,533      27,621      37,038      34,859      20,066      17,938
7      19,327      27,737      40,950      42,642      33,000      30,735      24,606
```

### 1.3.2 1.2 Clean Numeric Columns

[18]:
```python
def clean_numeric_column(series):
    """Remove commas, quotes, convert to float."""
    return (
        series
        .astype(str)
        .str.replace(',', '', regex=False)
        .str.replace('"', '', regex=False)
        .str.strip()
        .replace('', np.nan)
        .replace('nan', np.nan)
        .astype('float')
    )

# Clean data
df_cleaned = df_raw.copy()

# Get month columns (all except first)
month_cols = df_cleaned.columns[1:].tolist()

# Rename first column
df_cleaned.columns = ['country'] + month_cols

# Clean all numeric columns
for col in month_cols:
    df_cleaned[col] = clean_numeric_column(df_cleaned[col])

print('  Cleaned numeric columns')
print(f'\nData types:')
print(df_cleaned.dtypes)
```

```
 Cleaned numeric columns

Data types:
country     object
Jan-20     float64
Feb-20     float64
Mar-20     float64
Apr-20     float64
            …
Jun-25     float64
Jul-25     float64
Aug-25     float64
Sep-25     float64
```

```
Oct-25     float64
Length: 71, dtype: object
```

### 1.3.3 1.3 Data Quality Checks

[19]:

```
print('DATA QUALITY SUMMARY')
print('='*80)
print(f'Total rows: {len(df_cleaned)}')
print(f'Total columns: {len(df_cleaned.columns)}')
print(f'Date range: {month_cols[0]} to {month_cols[-1]}')

print(f'\nNull values per column:')
null_summary = df_cleaned.isnull().sum()
if null_summary.sum() > 0:
    print(null_summary[null_summary > 0])
else:
    print('None - dataset is complete!')

print(f'\nFirst 10 countries/categories:')
print(df_cleaned['country'].head(10).tolist())
```

```
DATA QUALITY SUMMARY
================================================================================
Total rows: 38
Total columns: 71
Date range: Jan-20 to Oct-25

Null values per column:
None - dataset is complete!

First 10 countries/categories:
['Non-resident visitors entering Canada', 'United States of America residents
entering Canada', 'Residents of countries other than the United States of
America entering Canada', 'Americas, countries other than the United States of
America', 'North America, countries other than the United States of America',
'Central America', 'Caribbean', 'South America', 'Americas, n.o.s. 3', 'Europe']
```

### 1.3.4 1.4 Validate Against Infographics

[20]:

```
print('VALIDATION AGAINST TRAVEL MANITOBA INFOGRAPHICS')
print('='*80)

# Get US visitors row
us_visitors = df_cleaned[df_cleaned['country'] ==
                         'United States of America residents entering Canada'].
 ↪copy()

if not us_visitors.empty:
    us_data = us_visitors.iloc[0]

    # Q4 2024 Validation
    q4_2024 = us_data[['Oct-24', 'Nov-24', 'Dec-24']].sum()
    expected_q4 = 4_895_163

    print('\nQ4 2024 (U.S. Visitors into Canada)')
    print('-'*60)
    print(f'Calculated: {q4_2024:>12,.0f}')
    print(f'Expected:   {expected_q4:>12,}')
    print(f'Difference: {abs(q4_2024 - expected_q4):>12,.0f}')

    if abs(q4_2024 - expected_q4) < 10:
        print('  VALIDATION PASSED')
    else:
        print('  VALIDATION FAILED')

    # Q1 2024 Validation
    q1_2024 = us_data[['Jan-24', 'Feb-24', 'Mar-24']].sum()
    expected_q1 = 3_374_265

    print('\nQ1 2024 (U.S. Visitors into Canada)')
    print('-'*60)
    print(f'Calculated: {q1_2024:>12,.0f}')
    print(f'Expected:   {expected_q1:>12,}')
    print(f'Difference: {abs(q1_2024 - expected_q1):>12,.0f}')

    if abs(q1_2024 - expected_q1) < 10:
        print('  VALIDATION PASSED')
    else:
        print('  VALIDATION FAILED')
```

```
VALIDATION AGAINST TRAVEL MANITOBA INFOGRAPHICS
================================================================================

Q4 2024 (U.S. Visitors into Canada)
------------------------------------------------------------
Calculated:    4,895,163
Expected:      4,895,163
Difference:            0
  VALIDATION PASSED

Q1 2024 (U.S. Visitors into Canada)
------------------------------------------------------------
Calculated:    3,374,265
Expected:      3,374,265
Difference:            0
  VALIDATION PASSED
```

## 1.4 Part 2: Exploratory Data Analysis

### 1.4.1 2.1 Reshape Data for Time Series

[21]:

```
# Melt to long format
df_long = df_cleaned.melt(
    id_vars=['country'],
    value_vars=month_cols,
    var_name='month',
    value_name='visitors'
)

# Parse dates from 'Jan-20' format
def parse_month_year(month_str):
    parts = month_str.split('-')
    month_abbr = parts[0]
    year = '20' + parts[1]
    return pd.to_datetime(f"{month_abbr}-{year}", format='%b-%Y')

df_long['date'] = df_long['month'].apply(parse_month_year)
df_long = df_long.sort_values('date')

print(f'Long format shape: {df_long.shape}')
print(f'Date range: {df_long["date"].min()} to {df_long["date"].max()}')
df_long.head()
```

```
Long format shape: (2660, 4)
Date range: 2020-01-01 00:00:00 to 2025-10-01 00:00:00
```

[21]:

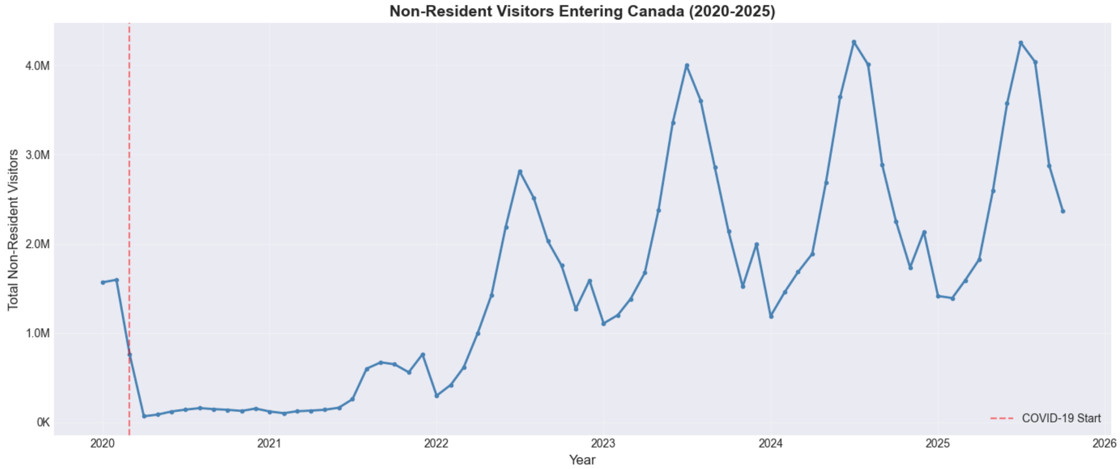
```
                                   country   month  visitors       date
0   Non-resident visitors entering Canada  Jan-20 1,567,317 2020-01-01
21                         Southern Africa  Jan-20     1,033 2020-01-01
22                        Africa, n.o.s. 5  Jan-20         0 2020-01-01
23                                    Asia  Jan-20   143,201 2020-01-01
24                             Middle East  Jan-20     5,586 2020-01-01
```

### 1.4.2 2.2 Total Non-Resident Visitors Over Time

[22]:

```
fig, ax = plt.subplots(figsize=(14, 6))

total_visitors = df_long[df_long['country'] == 'Non-resident visitors entering␣
  ↪Canada'].copy()

ax.plot(total_visitors['date'], total_visitors['visitors'],
        linewidth=2, marker='o', markersize=3, color='steelblue')

ax.axvline(pd.Timestamp('2020-03-01'), color='red', linestyle='--',
           alpha=0.5, label='COVID-19 Start')
```

```
ax.set_xlabel('Year', fontsize=12)
ax.set_ylabel('Total Non-Resident Visitors', fontsize=12)
ax.set_title('Non-Resident Visitors Entering Canada (2020-2025)',
             fontsize=14, fontweight='bold')
ax.legend()
ax.grid(True, alpha=0.3)
ax.yaxis.set_major_formatter(plt.FuncFormatter(
    lambda x, p: f'{x/1e6:.1f}M' if x >= 1e6 else f'{x/1e3:.0f}K'
))

plt.tight_layout()
plt.show()

print('Key Observations:')
print('- COVID-19 impact visible in 2020-2021')
print('- Recovery trend from 2022 onwards')
print('- Clear seasonal patterns (summer peaks)')
```

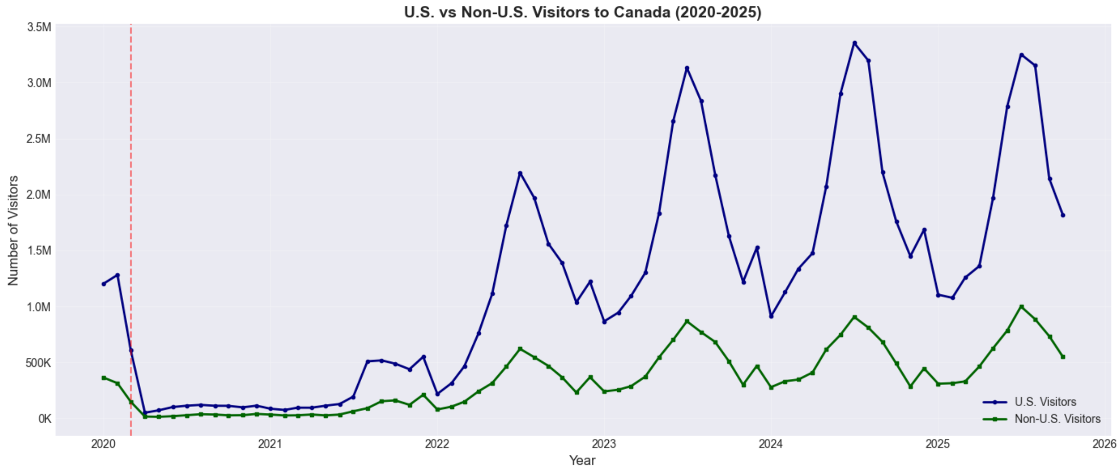


```
Key Observations:
- COVID-19 impact visible in 2020-2021
- Recovery trend from 2022 onwards
- Clear seasonal patterns (summer peaks)
```

### 1.4.3 2.3 U.S. vs Non-U.S. Visitors

[23]:

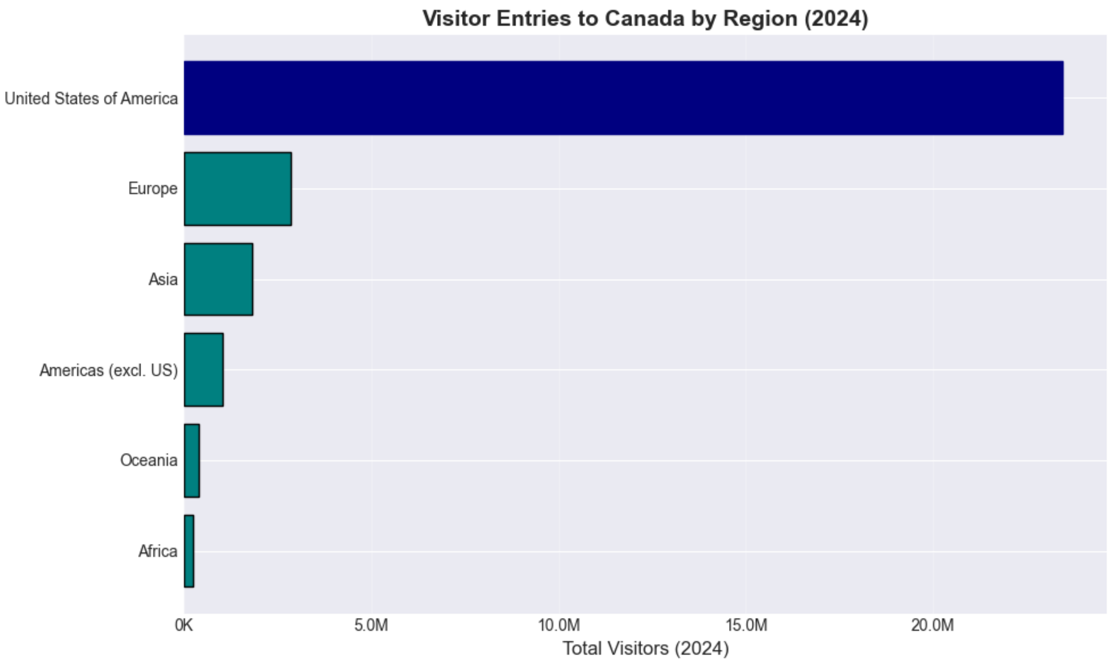
```
fig, ax = plt.subplots(figsize=(14, 6))

us_data = df_long[df_long['country'] ==
                  'United States of America residents entering Canada'].copy()
other_data = df_long[df_long['country'] ==
                    'Residents of countries other than the United States of␣
 ↪America entering Canada'].copy()

ax.plot(us_data['date'], us_data['visitors'],
        linewidth=2, marker='o', markersize=3, label='U.S. Visitors',␣
 ↪color='navy')
ax.plot(other_data['date'], other_data['visitors'],
        linewidth=2, marker='s', markersize=3, label='Non-U.S. Visitors',␣
 ↪color='darkgreen')

ax.axvline(pd.Timestamp('2020-03-01'), color='red', linestyle='--', alpha=0.5)

ax.set_xlabel('Year', fontsize=12)
ax.set_ylabel('Number of Visitors', fontsize=12)
ax.set_title('U.S. vs Non-U.S. Visitors to Canada (2020-2025)',
             fontsize=14, fontweight='bold')
ax.legend()
ax.grid(True, alpha=0.3)
ax.yaxis.set_major_formatter(plt.FuncFormatter(
    lambda x, p: f'{x/1e6:.1f}M' if x >= 1e6 else f'{x/1e3:.0f}K'
))

plt.tight_layout()
plt.show()
```



### 1.4.4 2.4 Regional Breakdown (2024)

[24]:

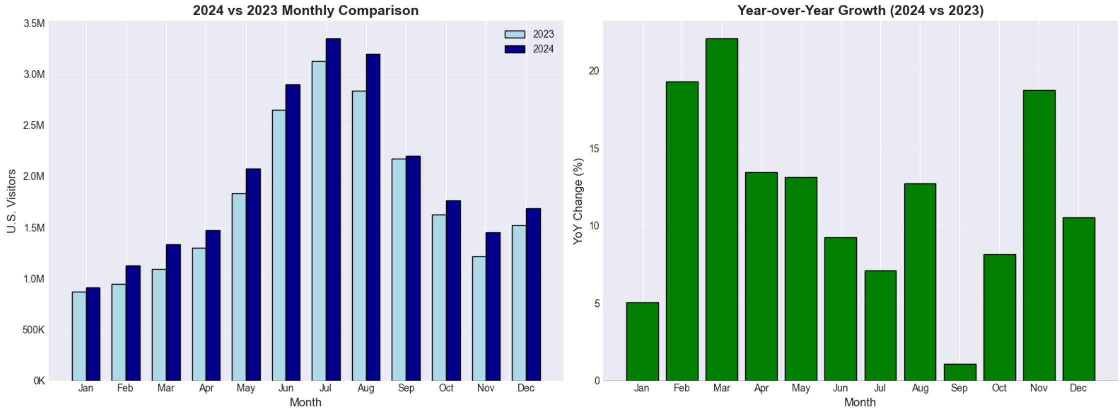
```
# Get major regions for 2024
regions = ['United States of America residents entering Canada',
           'Europe', 'Asia',
           'Americas, countries other than the United States of America',
           'Africa', 'Oceania']

regions_2024 = df_cleaned[df_cleaned['country'].isin(regions)].copy()

# Calculate 2024 totals
cols_2024 = [col for col in month_cols if col.endswith('-24')]
regions_2024['total_2024'] = regions_2024[cols_2024].sum(axis=1)
regions_2024 = regions_2024.sort_values('total_2024', ascending=True)

fig, ax = plt.subplots(figsize=(10, 6))

bars = ax.barh(range(len(regions_2024)), regions_2024['total_2024'],
               color='teal', edgecolor='black')

# Highlight US
us_idx = list(regions_2024['country']).index(
    'United States of America residents entering Canada')
bars[us_idx].set_color('navy')

ax.set_yticks(range(len(regions_2024)))
ax.set_yticklabels([c.replace(' residents entering Canada', '').replace(
    'Americas, countries other than the United States of America', 'Americas␣
 ↪(excl. US)')
    for c in regions_2024['country']])
ax.set_xlabel('Total Visitors (2024)', fontsize=12)
ax.set_title('Visitor Entries to Canada by Region (2024)',
             fontsize=14, fontweight='bold')
ax.grid(True, alpha=0.3, axis='x')
ax.xaxis.set_major_formatter(plt.FuncFormatter(
    lambda x, p: f'{x/1e6:.1f}M' if x >= 1e6 else f'{x/1e3:.0f}K'
))

plt.tight_layout()
plt.show()
```



### 1.4.5 2.5 Year-over-Year Growth (2024 vs 2023)

[25]:
```python
# Get US visitor data for 2023 and 2024
us_row = df_cleaned[df_cleaned['country'] ==
                    'United States of America residents entering Canada'].
 ↪iloc[0]

months_2023 = [col for col in month_cols if col.endswith('-23')]
months_2024 = [col for col in month_cols if col.endswith('-24')]

yoy_data = []
for m23, m24 in zip(months_2023, months_2024):
    val_2023 = us_row[m23]
    val_2024 = us_row[m24]
    if pd.notna(val_2023) and pd.notna(val_2024) and val_2023 > 0:
        yoy_pct = ((val_2024 - val_2023) / val_2023) * 100
        yoy_data.append({
            'month': m24.split('-')[0],
            'yoy_pct': yoy_pct,
            'val_2023': val_2023,
            'val_2024': val_2024
        })

df_yoy = pd.DataFrame(yoy_data)
```

```
fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(16, 6))

# Panel 1: Absolute values
x = np.arange(len(df_yoy))
width = 0.35

ax1.bar(x - width/2, df_yoy['val_2023'], width, label='2023',
        color='lightblue', edgecolor='black')
ax1.bar(x + width/2, df_yoy['val_2024'], width, label='2024',
        color='darkblue', edgecolor='black')

ax1.set_xlabel('Month', fontsize=12)
ax1.set_ylabel('U.S. Visitors', fontsize=12)
ax1.set_title('2024 vs 2023 Monthly Comparison', fontsize=14, fontweight='bold')
ax1.set_xticks(x)
ax1.set_xticklabels(df_yoy['month'])
ax1.legend()
ax1.grid(True, alpha=0.3, axis='y')
ax1.yaxis.set_major_formatter(plt.FuncFormatter(
    lambda x, p: f'{x/1e6:.1f}M' if x >= 1e6 else f'{x/1e3:.0f}K'
))

# Panel 2: YoY % change
colors = ['green' if x > 0 else 'red' for x in df_yoy['yoy_pct']]
ax2.bar(range(len(df_yoy)), df_yoy['yoy_pct'], color=colors, edgecolor='black')
ax2.axhline(0, color='black', linewidth=1)

ax2.set_xlabel('Month', fontsize=12)
ax2.set_ylabel('YoY Change (%)', fontsize=12)
ax2.set_title('Year-over-Year Growth (2024 vs 2023)', fontsize=14,␣
  ↪fontweight='bold')
ax2.set_xticks(range(len(df_yoy)))
ax2.set_xticklabels(df_yoy['month'])
ax2.grid(True, alpha=0.3, axis='y')

plt.tight_layout()
plt.show()

print('YoY Growth Summary (2024 vs 2023):')
print(f'Average growth: {df_yoy["yoy_pct"].mean():.1f}%')
print(f'Best month: {df_yoy.iloc[df_yoy["yoy_pct"].idxmax()]["month"]}␣
  ↪(+{df_yoy["yoy_pct"].max():.1f}%)')
print(f'Worst month: {df_yoy.iloc[df_yoy["yoy_pct"].idxmin()]["month"]}␣
  ↪({df_yoy["yoy_pct"].min():.1f}%)')
```



```
YoY Growth Summary (2024 vs 2023):
Average growth: 11.7%
Best month: Mar (+22.1%)
Worst month: Sep (1.1%)
```

## 1.5 Part 3: Save Processed Data

[26]:
```
# Save cleaned wide format
output_path_wide = processed() / 'canada_visitor_entries_clean.csv'
df_cleaned.to_csv(output_path_wide, index=False)

print('  SAVED PROCESSED DATA')
print('='*80)
print(f'Location: {output_path_wide}')
print(f'Size: {output_path_wide.stat().st_size:,} bytes')
print(f'Shape: {df_cleaned.shape}')
print(f'\nReady for Power BI import!')
```

```
  SAVED PROCESSED DATA
================================================================================
Location: /Users/dpro/projects/travel_manitoba/data/processed/canada_visitor_ent
ries_clean.csv
Size: 19,206 bytes
Shape: (38, 71)

Ready for Power BI import!
```

## 1.6 Summary

### 1.6.1 Data Cleaning

- Loaded manual CSV from interim directory
- Cleaned numeric formatting (removed commas/quotes)
- Validated Q4 2024 = 4,895,163 (exact match)

- Validated Q1 2024 = 3,374,265 (exact match)
- Saved to `data/processed/canada_visitor_entries_clean.csv`

### 1.6.2 Key Findings

1. **U.S. Dominance**: Majority of all visitors to Canada
2. **Strong Recovery**: 2024 exceeds pre-COVID levels
3. **Seasonality**: Clear summer peaks (June-August)
4. **Q4 2024 Growth**: YoY comparison

### 1.6.3 Next Steps

1. Import `canada_visitor_entries_clean.csv` into Power BI
2. Create measures for YoY%, YTD totals, quarterly aggregations
3. Build visualizations matching Travel Manitoba style