NATLYEAR: Introduction

This data set contains several variables, or indicators, that have been used by MMP researchers in the past to assess various factors contributing to migration between the United States and Mexico. These data have been gleaned from various projects; most notably Massey and Espinosa's 1997 article ("What's Driving Mexico-U.S. Migration? A Theoretical, Empirical, and Policy Analysis." *American Journal of Sociology* 102:939-999. The data below, in our mind, crystallize the migratory flow by painting a portrait of the economic and social conditions in any given year beginning from 1965 to present.

NATLYEAR: Variable List and Specifications

Variable	Format	Label
YEAR	4.0	Year
Border Indicators		
LWHRS	10.0	Line Watch Hours
PROBAPP	8.3	Apprehension Probability
VISACCSS	8.4	Visa Accessibility
INSBUDGT	8.1	U.S. Immigration and Naturalization Service Budget (Nominal Dlls)
CBPBUDGT	8.1	U.S. Customs and Border Protection Budget (Nominal Dlls)
ICEBUDGT	8.1	U.S. Immigration and Customs Enforcement Budget (Nominal Dlls)
CISBUDGT	8.1	U.S. Citizenship and Immigration Services Budget (Nominal Dlls)
BPEBUDGT	8.2	U.S. Border Patrol Enforcement Budget (Nominal Dlls)
Finance Indicators		
DFINVEST	8.0	Direct Foreign Investment
EXCHRATE	8.3	Exchange Rate (USD/Mexican Peso)
LAGEXCH	8.3	Lagged Exchange Rate
DEVAL	8.3	Peso Devaluation
INFRATE	8.4	Mexican Inflation Rate
MEXINT	8.1	Mexican Interest Rate
MEXRLINT	8.1	Mexican Real Interest Rate
MEXGDPPC	12.2	Mexican GDP per Capita (Nominal Dlls)
Trade Indicators Between the U.S. and Mexico		
EXPORTS	8.0	Value of U.S. Exports to Mexico (in millions of dollars)
IMPORTS	8.0	Value of U.S. Imports from Mexico (in millions of dollars)
TRADEBAL	8.0	Merchandise Trade Balance (in millions of dollars)
Labor Indicators		
MXMINWAG	8.2	Mexican Minimum Wage (nominal pesos)
MXUNEMP	8.3	Mexican Unemployment Rate
USAVWAGE	8.3	U.S. Average Wage
USUNEMP	8.3	U.S. Unemployment Rate
TOTUSEMP	8.0	Total U.S. Civilian Employment (in thousands)

NATLYEAR Data file: Variable code

Variable	Label and Code	Definition

YEAR   **Year**

yyyy   Year

Border indicators

LWHRS   **Line Watch Hours Per Year**

n,nnn,nnn   Number of hours

.   Missing data

PROBAPP   **Probability of Apprehension**

n.nnnn   Probability per year

VISACCSS   **Visa Accessibility**

.nnnn   Percentage

INSBUDGT   **INS Budget in Nominal U.S. Dollars (Available until 2002)**

n,nnn.nn   Dollars

8888   N/A – DHS took over INS in 2003.

CBPBUDGT   **Customs and Border Protection Budget in Nominal U.S. Dollars**

n,nnn.nn   Dollars

8888   N/A – Organization didn't exist prior to 2003

ICEBUDGT   **Immigration and Customs Enforcement Budget in Nominal U.S. Dollars**

n,nnn.nn   Dollars

8888   N/A – Organization didn't exist prior to 2003

CISBUDGT   **Citizenship and Immigration Services Budget in Nominal U.S. Dollars**

n,nnn.nn   Dollars

8888   N/A – Organization didn't exist prior to 2003

BPEBUDGT   **Border Patrol Enforcement Budget in Nominal U.S. Dollars**

nnn.nn   Dollars (in thousands of dollars)

Finance indicators

DFINVEST   **Direct Foreign Investment**

nn,nnnn   Investment

NATLYEAR Data file: Variable code

Variable	Label and Code		Definition
EXCHRATE	**Exchange Rate (USD/Mexican Peso)**		
		n.nnn	Exchange rate
		.	Missing data
LAGEXCH	**Lagged Exchange Rate**		
		n.nnn	Exchange rate
DEVAL	**Peso devaluation**		
		n.nnn	Devaluation
INFRATE	**Mexican Inflation Rate**		
		nn.nn	Inflation rate
MEXINT	**Mexican Interest Rate**		
		nn.nn	Interest rate
MEXRLINT	**Mexican Real Interest Rate**		
		nn.nn	Real interest rate
MEXGDPPC	**Mexican GDP per capita**		
		n,nnn,nnn.n	Amount

Trade Indicators Between the U.S. and Mexico

Variable	Label and Code		Definition
EXPORTS	**Value of U.S. Exports to Mexico**		
		nnn,nnn	Value in millions of dollars
IMPORTS	**Value of U.S. Imports from Mexico**		
		nnn,nnn	Value in millions of dollars
TRADEBAL	**Merchandise Trade Balance**		
		nn,nnnn	Balance in millions of dollars

Labor Indicators

Variable	Label and Code		Definition
MXMINWAG	**Mexican Minimum Wage (nominal pesos)**		
		n.nnnn	Wage

NATLYEAR Data file: Variable code

Variable	Label and Code		Definition
MXUNEMP	**Mexican Unemployment Rate**		
		n.nnn	Unemployment rate
		9999	Unknown
USAVWAGE	**U.S. Average Wage**		
		nn.nnn	Wage
USUNEMP	**U.S. Unemployment Rate**		
		n.nnn	Unemployment rate
TOTUSEMP	**Total U.S. Civilian Employment**		
		nnn,nnnn	Total in thousands

NATLYEAR Data file: Variable Notes and Sources

Variable	Notes and Sources

Border-crossing Indicators:

LWHRSN

Number of INS line watch hours per year
Source: U.S. Immigration and Naturalization Service / Department of Homeland Security

PROBAPP

Probability of apprehension per year
Likelihood of arrest while attempting to cross the border with false or no documents. Probability calculated with the MMP170.
Source: Mexican Migration Project

VISACCSS

Accessibility of visas
Computed as follows: $\dfrac{TIA}{TIA + GIE}$, where TIA = total immigrants admitted, and GIE = Gross illegal entries. Total immigrants admitted is the number of Mexicans who received the green card per fiscal year. Gross illegal entries per year are computed as follows: $Apprehensions * \dfrac{1 - Apprehension.probability}{Apprehension.probability}$.
Source: U.S. Immigration and Naturalization Service and the Mexican Migration Project.

INSBUDGT

INS Budget in Nominal U.S. Dollars
Source: U.S. Immigration and Naturalization Service

CBPBUDGT

Customs and Border Protection Budget in Nominal U.S. Dollars
Source: Department of Homeland Security

ICEBUDGT

Immigration and Customs Enforcement Budget in Nominal U.S. Dollars
Source: Department of Homeland Security

CISBUDGT

Citizenship and Immigration Services Budget in Nominal U.S. Dollars
Source: Department of Homeland Security

BPEBUDGT

Border Patrol Enforcement Budget in Nominal U.S. Dollars
Source: U.S. Immigration and Naturalization Service (until 1998)
        Homeland Security Digital Library (after 1998)

NATLYEAR Data file: Variable Notes and Sources

Variable	Notes and Sources

Finance Indicators:

DFINVEST **Direct Foreign Investment in Mexico**
Note: Amounts in millions of U.S. Dollars
Source: International Monetary Fund (IMF) – International Financial Statistics Yearbook various years. Variable: "Dir. Invest. In Rep. Econon., n.i.e." (until 1979); Secretaría de Economía (after 1980).

EXCHRATE **Exchange rate between Mexico and the U.S.**
Computed as follows:

For 1965-1985 = $\dfrac{MarketRate}{1000}$

For 1986-2000 = "Market Rate" as shown in IMF volume.
For 2001-present = Global Financial Data Website for Mexico
Source: International Monetary Fund (IMF) – International Financial Statistics Yearbook various years, & the Global Financial Data Website (www.globalfinancialdata.com) Last time accessed on September 25, 2018.

DEVAL **Peso devaluation.**
Specifically, the rate of change in the dollar value of the Mexican peso over the prior year. The devaluation was computed as follows:

$$DEVAL = \frac{EXCHRATE - LAGEXCH}{LAGEXCH}$$

Source: International Monetary Fund (IMF) – International Financial Statistics Yearbook various years (until 2013) and Banco de México (after 2013)

INFRATE **Mexican Inflation Rate**
Specifically, the rate of change in the Mexican Consumer Index over the prior year. Inflation was computed as follows: $MEXINT = \ln\left(\dfrac{CP_{t+1}}{CP_t}\right) * 100$, where CP = "Consumer prices"
Source: International Monetary Fund (IMF) – International Financial Statistics Yearbook various years (until 2013) and INEGI (after 2013)

MEXINT **Mexican Interest Rate.**
Specifically, the average cost of funds in Mexico.
Source: International Monetary Fund (IMF) – International Financial Statistics Yearbook for various years. Variable: Average Cost of Funds (until 2013) and Banco de México (after 2013)

NATLYEAR Data file: Variable Notes and Sources

Variable	Notes and Sources

MEXRLINT   **Mexican Real Interest Rate**
Computed as follows: $MEXRLINT = MEXINT - INFRATE$

MEXGDPPC   **Mexican GDP per capita**
Source: Global Financial Data Website (www.globalfinancialdata.com). Last time accessed on February 26, 2019

Trade Indicators between the United States and Mexico:

EXPORTS   **Value of U.S. Exports to Mexico**
Source: Statistical Abstracts of the United States for various years.

IMPORTS   **Value of U.S. Imports from Mexico**
Source: Statistical Abstracts of the United States for various years.

TRADEBAL   **Merchandise trade balance**
Note: Minus sign (-) denotes an excess of imports over exports.
Source: Statistical Abstracts of the United States for various years.

Labor Indicators:

MXMINWAG   **Mexican minimum wage (nominal pesos)**
Source: "Principales Indicadores Salariales en México" published by Banco de Mexico, July 2005 *& the Global Financial Data Website (www.globalfinancialdata.com). Last time accessed on* September 25, 2018

MXUNEMP   **Mexican Unemployment Rate**
Source: Global Financial Data Website (www.globalfinancialdata.com). Last time accessed on September 25, 2018.

USAVWAGE   **U.S. Average Wage**
Source: Statistical Abstracts of the United States for various years.

USUNEMP   **U.S. Unemployment Rate**
Source: Statistical Abstracts of the United States for various years.

NATLYEAR Data file: Variable Notes and Sources

Variable	Notes and Sources

TOTUSEMP   **Total U.S. Civilian Employment**
Note: Numbers through 1966 age 14+; after 1966 age 16+.
Source: Statistical Abstracts of the United States for various years.