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Border Enforcement and Return Migration by Documented and Undocumented Mexicans

Douglas S. Massey, Jorge Durand and Karen A. Pren

Using data from the Mexican Migration Project we compute probabilities of departure and return for first and later trips to the USA in both documented and undocumented status. We then estimate statistical models to analyse the determinants of departure and return according to legal status. Prior to 1986, Mexico–US migration was characterised by great circularity, but since then circularity has declined markedly for undocumented migrants but increased dramatically for documented migrants. Whereas return migration by undocumented migrants dropped in response to the massive increase in border enforcement, that of documented migrants did not. At present, the Mexico–US migration system has reached a new equilibrium in which undocumented migrants are caged in as long-term settlers in the USA while documented migrants increasingly range freely and circulate back and forth across the border within rising frequency.

Keywords: Mexican Migration; Border Enforcement; Undocumented Migration; Return Migration

The Mexico–US migration system is the largest and most durable migration system in the world and for most of its history movement within it was largely circular. The degree of circularity, however, has always been affected by US immigration and border policies. The Bracero Programme, for example, was a large temporary worker programme that operated from 1942 to 1964 and it *required* annual return migration

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by issuing short-term six month work visas. The termination of the Bracero Programme led to an era of circular undocumented migration between 1965 and 1985 as former Braceros and new migrants moved back and forth across the border without authorisation. Prior to 1986, a lack of documents presented no real barrier to employment or earnings and most migrants were able to move regularly between seasonal jobs in the USA and families back in Mexico.

Beginning in 1986, however, the US Congress outlawed undocumented hiring and imposed sanctions on employers while at the same time launching a progressive expansion of border enforcement. With much less fanfare, Congress also quietly revived guest worker migration, slowly at first but expanding more rapidly as time went on. Since then rates of return migration back to Mexico have declined steadily among undocumented migrants but progressively increased among those with documents. Here we seek to shed light on these contradictory trends by analysing the behaviour of documented and undocumented Mexican migrants with respect to departure and return.

We begin with a history of US border policies and their influence on the circulation of migrants and then review prevailing theories of migrant decisionmaking, using this review to specify models predicting the likelihood of departure and return from the USA. We then draw upon data from the Mexican Migration Project (MMP) to examine trends in the likelihood of departure and return on first and later trips by documented and undocumented migrants. In doing so, we seek to explain the emergence of a new Mexico–US migration system in which undocumented migrants are rooted north of the border and no longer circulate while documented migrants move back and forth with ever greater frequency.

A History of Cross-border Circulation and Settlement

Migration between Mexico and the USA historically has been a circular affair, with migrants coming and going in response to economic fluctuations on both sides of the border. From 1942 to 1964 circulatory migration prevailed under the auspices of the Bracero Programme, a binational temporary labour programme that annually sponsored the entry of Mexicans for short-term work in the USA (Massey, Durand, and Malone 2002). The status quo changed in 1964, when Congress terminated the Bracero Programme over Mexican protests and in 1965 imposed the first-ever limitations on legal immigration from the Western Hemisphere. Given the continuing labour demand and well-developed migrant networks, the inflow of Mexican migrants did not cease, but simply continued under undocumented auspices (Massey and Pren 2012). The status quo changed again in 1986 when Congress passed the Immigration Reform and Control Act (IRCA) which, among other things, launched a massive increase in border enforcement. Police actions along the border intensified during the early 1990s and increased exponentially after 2001, progressively militarising the border between Mexico and the USA (Massey and Pren 2012). Although border enforcement was intended to reduce undocumented departures, in the end it did far more to reduce the undocumented returns back to Mexico (Reyes 2004a) a drop in return migration has been labelled a 'caging effect' of border enforcement (Rosenblum 2012).

As a result, the *net* volume of unauthorised migration rose during the 1990s and early 2000s causing undocumented population growth to accelerate and reach a record 12 million persons in 2008 (Hoefer, Rytina, and Baker 2012). With the onset of the Great Recession, however, conditions changed yet again and between 2008 and 2009 the population of undocumented migrants fell by about a million persons. Since then it has fluctuated closely around a total of 11 million persons, indicating a net rate of zero (Passel, Cohn, and González-Barrera 2012).

In contrast to the decrease in undocumented migration from Mexico, documented migration has risen, with entries by permanent residents climbing from 90,000 to 146,000 between 1995 and 2012 while entries by temporary workers rose from 27,000 to 623,000. Since 2008 permanent entries have averaged 157,000 per year and temporary entries have remained above 500,000 per year despite the recession. The increase in temporary legal migration reflects largely unnoticed congressional actions taken to raise the number temporary work visas beginning in the 1990s. The number of entries by temporary workers grew from 12,500 in 1990 to 284,000 in 2012. The temporary inflow has also been boosted by a growing number of Mexicans eligible for visas under the North American Free Trade Agreement (NAFTA). From 1990 to 2012 the number of entries by treaty investors and traders grew from 190 to 98,000 and entries by intracompany transferees rose from 3000 to 84,000, while entries by temporary NAFTA professionals grew from 0 to 110,000 (U.S. Office of Immigration Statistics 2014).

The continued inflow of permanent residents reflects an ongoing process of 'defensive naturalisation' undertaken by legal Mexican immigrants since 1996, when Congress passed harsh legislation to limit the social, civil and economic rights of noncitizens. In order to protect themselves, millions of legal permanent residents decided to become US citizens. Whereas the number of Mexicans naturalised averaged just 20,000 per year from 1975 to 1995, after that date the annual average rose to 123,000, yielding an additional 2.1 million US citizens with the right to sponsor the *immediate* entry of spouses, minor children and parents *without numerical limitation*.

A second contributor to the surge of new citizens after 1995 was the legalisation process authorised by IRCA, which ultimately granted permanent residence to 2.3 million former undocumented Mexicans. As a condition of receiving permanent residence, migrants were required to take civics courses and demonstrate competence in English, requirements usually not imposed until an application for citizenship. As a result, when Congress began to strip away the rights of non-citizens in 1996, the millions of people legalised under IRCA were ready to apply for citizenship.

Official data thus suggest that documented migration from Mexico is up while undocumented migration is down. Although deportations from Mexico rose from 15,000 in 1990 to 307,000 in 2012 these removals have apparently not had a significant effect on undocumented population size. According to official estimates, the number of undocumented Mexicans dropped by just 200,000 between 2008 and 2012, despite more than 1.9 million deportations over the period (U.S. Office of Immigration Statistics 2014). Since the MMP data do not distinguish between voluntary and involuntary departures, we cannot study the effect of deportations here.

Although a number of studies have studied the determinants of undocumented migration (Massey and Espinosa 1997; Reyes 2004a; Massey and Riosmena 2010; Angelucci 2012) and several observers have noted declining rates of return migration by unauthorised migrants (Massey, Durand, and Malone 2002; Reyes 2004b; Rocha et al. 2014), little attention has been paid to the determinants of legal migration or the effects of enforcement on documented migrants. Massey and Espinosa (1997) did model documented as well as undocumented departures and returns, but their data predated the border militarisation of the 1990s and their models did not include a direct measure of enforcement. Riosmena (2010) studied documented migration more recently, but he did not consider return migration or the effects of enforcement. Here we offer the first systematic analysis of the border-crossing behaviour of legal Mexican migrants and the effects of border militarisation on their likelihood of departure and return.

Theorising Departure and Return

Obviously Mexicans migrate to the USA because they see a benefit in doing so. Neoclassical Economics (NE) posits the benefit to be higher lifetime earnings. Rational actors are assumed to observe expected incomes at the place of origin and various potential destinations, compute the income stream they expect to accrue at each location over their working lifetimes subject to temporal discounting, subtract out the costs of migration and then move to the location that maximises net lifetime earnings (Todaro and Maruszko 1986). In contrast, the New Economics of Labor Migration (NELM) argues that the benefits of migration accrue not to individuals, but to households which use migration to manage risks and overcome a lack of access to markets for capital, credit and insurance (Stark 1991). By sending out migrants to work in geographically distinct labour markets, households diversify their labour portfolio to protect against a downturn in any single location; and by sending out migrants to a high-wage area households can accumulate funds rapidly to overcome a lack of access to markets for capital and credit.

Whatever their economic motivations, migrants are always embedded in social structures—networks based on kinship, friendship and acquaintance as well as formal and informal social organisations. According to social capital theory, the migration of one person within a social network not only creates a potential motivation for reunion among those left behind (especially within families) but also generates social capital that other network members may draw upon to reduce their costs and risks of movement, spurring some of them to migrate, thereby expanding the network further to yield a self-feeding cycle of cumulative causation over time (Massey et al. 1998).

The NE and NELM models predict very different scenarios of migration and return. Whereas NE does not envision return migration unless the earnings gap shrinks to the point where the net gain in earning approximates the costs of movement, NELM assumes that migrants plan to return from the very beginning, either repatriating their earnings to diversify household income or returning with accumulated savings to overcome local market failures. The motivations hypothesised by NE and NELM are not mutually exclusive, of course, and research suggests that both play a role in migrant decision-making (Massey and Espinosa 1997; Garip 2012).

US immigration and border policies have implicitly rested on a neoclassical foundation, seeking to drive up the costs and risks of undocumented border crossing while lowering the odds of unauthorised employment and depressing earnings to reduce the incentives for migration. If Mexican migrants are indeed operating according to the precepts of NE, then the main issue is whether expected US earnings can be reduced enough to deter migrants from heading northward. If, however, migrants are operating according to the precepts of NELM, then driving up the costs and risks of border crossing could well backfire by curtailing circular migration. Having experienced higher costs and risks at the border, migrants might hunker down and stay north of the border rather than returning home to face those costs and risks again. Border enforcement, therefore, can be expected to play an outsized role in the decision-making of undocumented as opposed to documented migrants.

Prior work indicates that until 1986 movement between Mexico and the USA was heavily circular, in keeping with expectations from NELM, suggesting a significant risk of backfire from a policy of intense border enforcement. Massey and Singer (1995) estimated that from 1965 to 1985 around 85% of undocumented entries were offset by departures; and Jasso and Rosenzweig (1982) estimated that 56% of legal immigrants from Mexico who arrived in 1970 had returned by 1979. Although we cannot know for sure how many documented and undocumented migrants moved with motivations assumed by NE versus NELM, it is clear that clear that circulation was common in both groups.

Data and Methods

Our data come from the MMP, which since 1987 has annually conducted representative surveys in communities throughout Mexico. The MMP database currently includes 23,851 households surveyed in 143 communities located in 24 Mexican states, along with paired samples of migrants from those communities living in US destination areas, yielding information on a total of 151,785 persons of whom 24,203 had prior US migratory experience at the time of the survey. Communities in the MMP were chosen to build socioeconomic, geographic and demographic diversity into the sample over time and to include a range of urbanism, from small rural villages to neighbourhoods in large urban areas. Within each community, households were selected using simple random sampling. In the course of doing the interviews, MMP fieldworkers collected additional contact information on friends and family members settled in the USA and used these as leads to build network samples of

migrants in US destination communities, thereby capturing the experience of settled households whose members no longer return home with any regularity.

Interviews were guided by a semi-structured instrument that compiled information about the household head, the spouse, all children of the head and any additional household members. Interviews were conducted with the household head or spouse, who provided information on other members of the family, including all children of the household head and any other persons present in the household at the time of the interview. Grown children who had left the household were flagged to indicate they were no longer household members. Migrants temporarily in the USA were considered to be members if they were expected to rejoin the household upon returning to Mexico.

The survey compiled basic social, economic and demographic information about all household members, including data on first and last trips to the USA plus the legal status in which trips were made. Each household head provided a complete history of migration and border crossing and answered a detailed series of questions about experiences on the last US trip. Documentation was defined at the point of entry or attempted entry into the USA and since our model predicts departures within 12 months we observe no changes in status during this short interval. Undocumented migrants include those who sought to cross the border without authorisation and those who entered with a tourist visa but then violated its terms by working or staying too long. Since 1970, only 5% all undocumented household heads have entered with a tourist visa with little year-to-year variation.

Documented migrants include legal permanent residents, naturalised US citizens and those holding a visa permitting temporary work or residence in the USA. Unlike their undocumented counterparts, however, the composition of the documented inflow has undergone marked changes over time. Figure 1 plots the percentage of documented household heads entering on a temporary visa from 1970 to the present. Prior to 1995 this percentage never exceeded 5%, but during 1995–1999 it increased suddenly to 17.2% and jumped to 51.8% in 2000–2004 and reached 61.1% in 2005.

To compute probabilities of first migration we draw upon life histories provided by household heads, following each subject year-by-year from the point of entry into the labour force up to the date of the first trip or the survey. A trip is defined as a journey northward in which entry to the USA was attempted or achieved. The probability of taking a first trip was computed as the number of observed first trips in year *t* divided by the number of people at risk of taking a first trip in that year (persons of labour force age who have never been to the USA).

To compute the probability of taking an additional trip, we followed each migrant from the point of return to Mexico up to the date of the next trip or the survey and divided the number of additional trips observed in year t by the number of migrants at risk of making an additional trip in that year. A return was defined as a trip back to the home community lasting at least three months. We computed the probability of return migration by recording whether a return occurred within 12 months of the last entry and then dividing the frequency of return trips to Mexico by the number of successful entries.



Figure 1. Percentage of documented household heads entering the USA with temporary visas.

The independent variables we use to predict decisions about migration and return are listed in Table 1. To the extent that migration is economically motivated, we expect the likelihood of departure to vary in conjunction with personal characteristics that affect earnings capacity. Our model of migration thus includes demographic indicators such as age, gender, marital status and household composition as well as human capital measures such as labour force experience, education and occupational skill. We also include two measures of migration specific human capital, cumulative US experience and number of prior US trips, and in addition measure ownership of physical capital such as land, a home or business. These assets might serve either as a source of money to finance a trip or as a motivation to accumulate capital for investment.

Indicators of social capital focus on ties to people with prior migratory experience, such as parents, spouses, siblings and children; but we also include general indicators such as the prevalence of migrants in the community. To assess the effect of the progressive shift from permanent to temporary visas among documented migrants we include a dummy variable indicating whether entry was achieved with a temporary visa. To assess the legacy of IRCA's legalisation programme we include dummy variable indicating whether legal status was achieved under IRCA. Among undocumented migrants, we measure whether or not entry occurred with a tourist visa that was subsequently violated by working or staying too long.

Whatever individual characteristics a person displays, the likelihood of undocumented migration also depends on contextual circumstances at origin and destination. Among the most salient is labour demand in the USA, which we measure as the annual

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2501–9999 1 if yes, 0 otherwise	10.000-99.999	1 if yes, 0 otherwise
	2501-9999	1 if yes, 0 otherwise
2500 1 if yes, 0 otherwise	2500	1 if yes, 0 otherwise

Table 1. Definition of variables used in analysis of documented and undocumented migration from Mexico to the USA.

percentage change in the number of US residents who are gainfully employed (obtained from the U.S. Bureau of Labor Statistics 2014). The supply of migrant labour is filtered, of course, by US immigration and border policies. The probability of undocumented migration is likely to be determined, at least partially, by access to legal visas, which we measure as the annual number of legal entries by Mexicans for work or residence in any year (from the U.S. Office of Immigration Statistics 2014) divided by Mexico's population in that year (from the United Nations 2014). Since 1986, the USA has mounted a great effort to apprehend unauthorised migrants and to assess this effort we include the real value of the US Border Patrol's Budget (compiled from various sources at the U.S. Department of Homeland Security 2014). In real terms, the budget rose from \$282 million in 1970 to 3.8 billion in 2010, a 13-fold increase.

In addition to rising enforcement efforts at the federal level, between 2005 and 2010 the number of immigration-related laws introduced into state legislatures rose from 200 to 1156 (National Council of State Legislatures 2014) and numerous enforcement agreements were negotiated between state and local authorities and the federal government (U.S. Immigration and Customs Enforcement 2014). A plethora of local anti-immigrant measures were also adopted around the country, but to the extent that such actions influence the behaviour of migrants, they seem to affect decisions about where to locate more than whether to leave; and evidence suggests that their influence on locational decisions is limited (Parrado 2012), so we do not address state and local enforcement actions here.

On the sending side, we focus on three conditions. Population pressure was measured by the crude birth date 15 years before the person-year in question in order to proxy the size of cohorts entering the labour force (from Mitchell 2007). Economic opportunity in Mexico is measured using the annual percentage change in Gross Domestic Product (GDP) expressed in constant 2005 dollars (from the U.S. Department of Agriculture (2014). Finally, we consider violence as a potential driver of migration using the annual homicide rate in Mexico, which we obtained from Aguirre Botello (2011) who culled the information from several sources. Data for 1970-1974 came from printed volumes of the Anuario Estadístico de la República Mexicana, published by Mexico's Instituto Nacional de Estadística y Geografía (INEGI). Data for 1975–1976 were obtained from annual editions of Health in the Americas, published by the Pan American Health Organization. Data for 1977–1978 came from the website Fortalezas de México, operated by the government agency Proméxico. Data for 1979-1989 were downloaded from the online database of the Sistema Nacional de Información en Salud, operated by Mexico's Secretaría de Salud. Finally, data for 1990 onward were obtained from INEGI's online Consulta Interactiva de las Estadísticas de Mortalidad.

All variables listed in Table 1 are time-varying except gender, education and community size which are measured at the survey date. To model departures we selected all person-years lived from 1970 onwards and followed household heads from the point of entry into the labour force to the date of the first trip or the survey and used logistic regression to predict migration in year t + 1 (1 if yes, 0 otherwise)

from independent variables defined in year t, thus yielding a discrete-time event history analysis. To model returns we selected those person-years in which a successful entry was achieved and predicted whether a return occurred within 12 months, measuring both independent and dependent variables in year t.

Trends in Departure and Return

Figure 2 shows annual probabilities of taking *first* documented and undocumented trips to the from 1970 to 2007, smoothed here and elsewhere using three-year moving averages to eliminate short-term fluctuations. As one might expect, given the limits on legal entry enacted after 1965, the probability of taking a first documented trip is substantially less than that of taking a first undocumented trip. Whereas the annual probability of taking an initial documented trip averaged round 0.0009 per year and varied from 0.0004 to 0.0015, the probability of taking a first undocumented trip averaged around 0.009 per year and ranged from 0.003 to 0.014. We also observe greater variation over time in the likelihood of undocumented than documented migration, with peaks and valleys corresponding roughly to US economic cycles.

The trend in unauthorised departure probabilities is consistent with aggregate estimates of net undocumented migration, which slowed after 2000 and fell to zero or negative after 2008. Since net migration depends on out-migration as well as in-migration, Figure 3 shows trends in the probability of returning to Mexico within 12 months of entering on a first undocumented trip. Prior to 1986 the probability of



Figure 2. Probability of taking a first US trip.

return was quite high irrespective of legal status, with the average being 0.52 for documented migrants and 0.55 for undocumented migrants. After 1986, however, return probabilities for the two legal status groups moved in opposite directions. As shown in the figure, the probability of returning from a first documented trip steadily rose to reach 1.0 in 2006 while the likelihood of returning from a first undocumented trip fell steadily to reach an all-time low of 0.21 in that same year.

Figure 4 plots the probability of taking an additional US trip among those migrants who had made at least one trip. Unlike what we observed on first US trips, the likelihood of taking an additional trip is higher for documented than undocumented migrants. From 1970 to 1990 the probability additional migration averaged 0.041 for undocumented migrants but 0.054 for documented migrants. Thereafter the probability of taking an additional *documented* trip rose from 0.056 to 0.152 through 2000 whereas the likelihood of an additional *undocumented* trip increased only from 0.043 to 0.062. Beginning around 2000 both probabilities began to fall but after 2007 probability of additional migration rose sharply for documented migrants while continuing to fall for the undocumented. As of 2010 the probability of taking an additional trip stood at 0.125 for those with documents but had dropped to 0.029 for the undocumented.

Figure 5 completes our descriptive analysis by showing estimated probabilities of return within 12 months of taking an additional US trip. As can be seen, the likelihood of returning from an additional trip was quite high, averaging 0.83 for documented migrants and 0.78 for undocumented migrants between 1970 and 1985. Once again, however, the trends diverge markedly beginning in 1986, with the



Figure 3. Probability of returning from first US trip within 12 months.



Figure 4. Probability of taking an additional US trip.

likelihood of return rising to 0.92 by 2007 for those with documents and falling to 0.43 for those without documents. As the border became more militarised and the US and Mexican economies more integrated under the NAFTA, legal immigrants grew more likely to return to Mexico while illegal migrants grew more likely to remain in the USA. Depending on legal status, the circularity of Mexican migration moved in opposite directions.

Initial Departure and Return

Table 2 presents the results of a discrete-time event history analysis estimated to identify the determinants of taking a first US trip in documented and undocumented status. The determinants of initial *undocumented* migration are shown in the first two columns. Here we see that the likelihood of a first undocumented departure displays the familiar curvilinear pattern with respect to age, rising to a peak in the late 1920s and declining thereafter. Compared with males, females are less likely to initiate undocumented migration, consistent with the fact that in Mexico undocumented migration tends to be very much a male-led phenomenon (Cerrutti and Massey 2001). Holding age and gender constant, taking a first undocumented trip is less likely for those who are married and have children in the household.

With respect to human capital, those initiating undocumented migration are negatively selected with respect to education and occupational skill, suggesting that returns to education and skill in US labour markets are lacking for those without legal



Figure 5. Probability of returning from an additional US trip.

work. In terms of social capital, the initiation of undocumented migration is positively predicted by having a US migrant parent, siblings and children and by coming from a community with a high prevalence of US migrants, consistent with social capital theory. However, departure is negatively predicted by having a migrant spouse, suggesting that households either send either a head or a spouse, but not both. Departure is also negatively predicted by having US-born children but this condition is extremely rare among those contemplating a first trip. Ownership of physical capital such as land, a home or a business negatively predicts the initiation of undocumented migration, consistent with the NELM hypothesis that financing the acquisition of assets is a major motivation for migration. Those who already possess these assets thus lack a key motivation for movement.

In terms of the US context, individuals who hold a tourist visa are much more likely to initiate undocumented migration than those who face the prospect of unauthorised border crossing. The initiation of undocumented migration is also strongly and positively predicted by employment growth in the USA but negatively predicted by the relative supply of legal visas. The size of Border Patrol budget, however, has no significant effect on the likelihood of initiating undocumented migration. On the Mexican side, the likelihood of an undocumented departure is negatively predicted by the lagged crude birth rate, suggesting that larger cohorts of 15-year-olds entering the labour force ages predict *lower* likelihoods of taking a first undocumented trip. This seeming anomaly may reflect the fact that we are measuring demographic pressures at the national rather than the community level owing to data

	Departed on without doo	Departed on first trip without documents		first trip ments	
	β	SE	β	SE	
Demographic background					
Age	0.1926***	0.00785	0.0721***	0.0175	
Age squared	-0.0038***	0.000133	-0.0010***	0.00023	
Female	-0.8467***	0.0726	0.7394***	0.1362	
Married	-0.1815***	0.0438	-0.2380**	0.1148	
No. of minors in household	-0.0369***	0.0109	-0.0805**	0.0299	
Human capital					
Labour force experience	0.0017	0.0039	-0.0148^{*}	0.00793	
Education	-0.0165***	0.00459	0.1283***	0.0113	
Agricultural job	_		_		
Unskilled job	0.0421	0.0352	-0.2619**	0.0978	
Skilled job	-0.3435***	0.0584	0.0231	0.1358	
Social capital					
Parent a US migrant	0.3998***	0.0456	0.0256	0.1149	
No of US migrant siblings	0.0227*	0.0129	-0.0476	0.0312	
Spouse a US migrant	-0.5196***	0.1154	-0.7714^{**}	0.2418	
No. of US migrant children	0.1796***	0.037	0.1569***	0.0434	
No. of US-born children	-2.1732***	0.2764	-1.8225***	0.4666	
Prop US migrants in community	0.0236***	0.00114	0.0198***	0.00347	
Physical capital					
Land	-0.1641**	0.0595	-0.1750	0.1627	
Home	-0.3094***	0.0400	-0.2514**	0.1043	
Business	-0.4019***	0.0644	-0.1985	0.1529	
Documentation					
Documented: temporary visa	_		4.6272***	0.1229	
Documented: legalised under IRCA	—		-0.6433***	0.1699	
Undocumented: violated tourist visa	3.3664***	0.0794	_		
US context					
Border patrol budget (millions of \$2013) -0.0756	0.0654	-0.2765^{*}	0.1628	
Rate of employment growth	0.0628***	0.0118	0.0623*	0.0338	
Residence and work visas per capita	-0.0002^{*}	0.000103	0.0002	0.000255	
Mexican context					
Lagged crude birth rate	-0.0270^{***}	0.007	-0.0326^{*}	0.0176	
Rate of GDP growth (\$2005)	0.0036	0.00451	-0.0295**	0.0119	
Homicide rate	-0.0064	0.00707	0.0053	0.0195	
Community size					
>100,000	_		—		
10,000–99,999	0.6437***	0.0538	-1.0666^{***}	0.1183	
2501-9999	0.5970***	0.0526	-1.3150^{***}	0.1215	
≤2500	0.7744***	0.0573	-1.3807***	0.1472	
Intercept	-6.0653***	0.3690	-5.1997***	0.9265	
Likelihood ratio	5984.0199***		1700.6557***		
Wald	4922.5672***		2115.5368***		
Total number of person-years	6,41,586	1,	93,012		

Table 2. Discrete time event history model predicting likelihood of first departure for the
USA 1970–2012.

p < .05; p < .01; p < .01; p < .001.

limitations. The coefficients for community size suggest that first undocumented departures are more likely from small cities and towns than from large urban areas, with the odds being especially high in rural villages.

The second set of columns in Table 2 show the determinants of taking a first documented trip to the USA. Demographically we see the same pattern of results as for first undocumented departures, with one exception. Although the odds of initiating documented migration display the familiar curvilinear pattern with respect to age and those who are married and have young children in the household are less likely to depart, women are much *more* likely than men to depart on a first trip with documents, suggesting that the legal migration of women depends on the prior legalisation of a father or husband. Unlike their undocumented counterparts, however, documented migrants are positively selected on the basis of education. The initiation of documented migration is also more likely among those having US migrant children and those coming from a community with a high prevalence of US migrants and less likely among those having a migrant spouse or US-born children (again a very rare circumstance); but the odds of initiating documented migration are unrelated to having a migrant parent or siblings and negatively related to labour market experience, in contrast to effects estimated in the undocumented departure model. As was the case with new undocumented migrants, however, first-time documented migrants are negatively selected with respect to home ownership, though the possession of land or a business has no significant effect on the likelihood of departure.

Other things equal, the odds of undertaking a first documented departure are most strongly predicted by having access to a temporary visa, which increases the odds of departure by a huge factor of 138 (exp[4.6272] = 137.99). Not surprisingly those who manage to secure a temporary visa for work or residence in the USA are very likely to use it. Although the odds of taking a first undocumented trip are positively predicted by a larger supply of US visas, the coefficient is not significant, though it is the same absolute size as the negative coefficient exhibited by undocumented migrants. As with undocumented migrants, the odds of initiating documented migration are positively predicted by higher US labour demand and negatively predicted by the lagged crude birth rate; but ironically it is documented departures, not undocumented departures, that are negatively predicted by rising border enforcement. In keeping with both NE and NELM, first documented departures are inhibited by economic growth in Mexico. However, whereas first *undocumented* trips were most likely to originate in small cities and towns first *documented* migration are most likely to emanate from large urban areas.

Finally, those migrants who legalised under IRCA are much less likely than other documented migrants to have *begun* their migratory careers as documented migrants, which is true almost by definition since those qualifying for legalisation under IRCA are required to have prior undocumented experience in the USA. However, IRCA's farmworker legalisation programme was so poorly administered and so ambiguous in its criteria that it induced many Mexicans who had never worked in US agriculture,

or even been in the USA, to cross the border in hopes of being legalised (Massey, Durand, and Malone 2002).

Table 3 takes up the issue of what migrants do once they arrive in the USA by showing logistic regression equations estimated to predict the likelihood of returning home within 12 months of entry. *Undocumented* migrants display a curvilinear relationship with respect to age, with the odds of return rising up to age 38 before declining. Return migration is also more likely for undocumented migrants who are married, though women are less likely than men to return within a year of entry. Although women are less likely to begin migrating without documents, when they do migrate they are less likely to return. Likewise, although educated and skilled migrants are less likely to take a first trip without documents those that do depart are much less likely to go back. Return migration is also deterred by having a migrant parent, siblings and children whereas ownership of a home and a business positively predicts the likelihood of returning from a first undocumented trip, though land ownership has the opposite effect.

By far the strongest effect in the model, however, is that of US border enforcement. Whereas the size of the Border Patrol budget had no significant effect on the likelihood of departing on a first undocumented trip, each million dollar increase in the real value of the agency budget reduces the odds of yearly return migration by 44%. As one might expect, the likelihood of returning within 12 months is significantly greater for undocumented migrants who enter with a tourist visa, since they do not experience the rising costs and risks of unauthorised border crossing. The likelihood of return migration is negatively related to US labour demand, but positively influenced by a rising homicide rate in Mexico, suggesting that undocumented migrants may be induced to return home during violent times for fear of leaving family members unprotected.

The likelihood of return from a first *documented* trip within 12 months is predicted by many fewer variables. The only demographic factor that is significant is the number of minors in the household (negative) and the only significant social capital indicator is the proportion of US migrants in the community (positive). As with firsttime undocumented migrants, the likelihood of return is negatively predicted by rising occupational skill, but unlike undocumented migrants return is *positively* related to education among the documented. The only contextual effect that is significant is the negative influence of the lagged crude birth rate, replicating the anomalous effect found for undocumented migrants.

As with departures, by far the strongest effects in the model are those pertaining to documentation. Not surprisingly, the odds of return migration for those travelling on a temporary visa are 59 times greater than those travelling with a permanent resident visa or US passport (the latter is a tiny number). However, the odds of returning from a first documented trip are 82% less for those legalised under IRCA. As one might expect, the size of the Border Patrol budget had no significant effect on those migrating with legal documents. Whereas border enforcement was the strongest predictor of return by new *undocumented* migrants and had a negative effect, it is the

	Returned from first undocumented trip		Returned from first documented trip	
	β	SE	β	SE
Demographic background				
Age	0.0786***	0.0195	-0.0024	0.0370
Age squared	-0.0010***	0.00026	0.0005	0.0004
Female	-0.2541*	0.1530	0.3922	0.2620
Married	0.5192***	0.0837	0.3041	0.1931
No. of minors in household	-0.0236	0.0207	-0.1128**	0.0524
Human capital				
Labour force experience	-0.0062	0.00671	0.0051	0.0134
Education	-0.0352***	0.00959	0.1320***	0.0194
Agricultural job	_		_	
Unskilled job	-0.2280***	0.0657	-0.7249***	0.1545
Skilled job	-0.5788**	0.2201	-1.3127**	0.4588
Social capital				
Parent a US migrant	-0.1464*	0.0853	0.2094	0.2040
No of US migrant siblings	-0.0766**	0.0251	-0.0327	0.0560
Spouse a US migrant	-1.0960***	0.1513	-0.4713	0.3136
No. of US migrant children	-0.0331	0.0564	0.1270	0.0774
No. of US-born children	_		_	
Prop US migrants in community	0.0013	0.00258	0.0161**	0.00622
Physical capital				
Land	-0.2061*	0.1129	-0.0771	0.2560
Home	0.2045**	0.0758	0.2700	0.1734
Business	0.1991*	0.1145	0.3802*	0.2220
Documentation				
Documented: temporary visa	_		4.0763***	0.2276
Documented: legalised under IRCA	_		-1.7149***	0.4757
Undocumented: violated tourist visa	0.2962**	0.1449	_	
US context				
Border patrol budget (millions of \$2013)	-0.5771***	0.1640	-0.2939	0.2918
Rate of employment growth	-0.0395*	0.0230	0.0787	0.0646
Residence and work visas per capita	-0.0003	0.0002	0.0002	0.000413
Mexican context				
Lagged crude birth rate	-0.0106	0.0146	-0.0524^{*}	0.0298
Rate of GDP growth (\$2005)	0.0089	0.00908	-0.0084	0.0219
Homicide rate	0.0361*	0.017	0.0207	0.0377
Community size				
>100,000	_		_	
10,000-99,999	0.2430**	0.1077	-0.8475***	0.2222
2501-9999	0.0342	0.1064	-0.8528***	0.2150
<2500	0.1382	0.1145	-1.4056***	0.2666
Intercept	-1.4657*	0.8351	-2.0891	1.6134
Likelihood ratio	386.207***		693.9355***	
Wald	341.6675***		527.5618***	
Total number of person-years	5159		5150	

Table 3. Logistic regression model predicting likelihood return from first US trip within12 months of entry 1970–2012.

p < .05; p < .01; p < .01; p < .001.

holding of a temporary visa that most strongly predicts the return of *documented* migrants and its effect is positive.

Departing and Returning on Later Trips

Table 4 presents discrete-time event history models estimated to predict the likelihood of departure on an additional trip to the USA. As on first trips, the likelihood of a later *undocumented* departure is curvilinear with respect to age and lower for women than men, but on later trips the odds of departure are increased rather than decreased by being married and having minor children in the household. The likelihood of taking additional undocumented trips is negatively predicted by rising human capital, with one exception. Although labour force experience, education, occupational skill and cumulative US experience decrease the odds of migrating again, the likelihood of going again is positively predicted by the number of prior US trips. Holding cumulative US experience constant, the more undocumented trips likely indicate the adoption of a strategy of recurrent migration (Massey et al. 1987).

The likelihood of taking another undocumented trip is positively related to the prevalence of US migrants in the community but negatively predicted by having other US social ties, with significant negative coefficients associated with the number of migrant siblings, having a migrant spouse, and the number of migrant and US-born children. The likelihood taking of additional undocumented trips is also negatively predicted by home ownership, once again suggesting the importance of financing home acquisition as a migrant motivation. As with first trips, the odds of undocumented departures on additional trips are greatest in small cities, towns and rural villages.

Whereas border enforcement had no effect on the likelihood of taking a *first* undocumented trip, it has a very pronounced effect in reducing the likelihood of taking *additional* trips. Each real increase of a million dollars in the Border Patrol budget reduces the odds of an additional undocumented departure by 89%, confirming the importance of border enforcement in shutting down circular undocumented migration. As one might expect, the odds of an additional departure are much greater (by about four times) among undocumented migrants travelling with a tourist visa; and as on first trips, the likelihood of taking an additional undocumented trip is reduced by a greater supply of legal visas. The likelihood of additional undocumented migration is once again negatively predicted by the lagged crude birth rate in Mexico. In addition, the homicide rate also has a significant negative effect, perhaps suggesting that former migrants are less likely to depart without documents and leave their families unguarded during violent times.

Turning to the determinants of additional *documented* migration, the likelihood of migrating again is curvilinear with respect to age, but gender has no effect; and whereas being married increases the odds of going again, the presence of children in the household reduces them, in contrast to the positive effect observed among

	Took additional trip without documents		Took additional trip with documents	
	β	SE	β	SE
Demographic background				
Age	0.0668***	0.0122	0.0227*	0.0136
Age squared	-0.0011***	0.000152	-0.0003**	0.000152
Female	-0.3956**	0.1302	0.0580	0.1279
Married	0.1341**	0.0547	0.1953**	0.0649
No. of minors in household	0.0479***	0.0105	-0.0690***	0.00125
Human capital	0.0179	0.0105	0.0000	0.0125
Labour force experience	-0.0100**	0 00474	-0.0036	0.0047
Education	-0.0100	0.00474	0.0050	0.0047
Agricultural job	-0.0404	0.00037	0.0051	0.00004
Unskilled job	0 2272***	0.0306	0 6075***	0.0450
Skilled job	-0.2373	0.0390	-0.0073	0.0439
Skilled JOD	-0.7992	0.1369	-0.0372	0.1304
Cumulative US experience	-0.0158	0.000603	-0.0045***	0.000422
No of previous US trips	0.1//2	0.00572	0.1/86	0.004//
Social capital	0.0500	0.0420	0.41(2)***	0.0462
Parent a US migrant	0.0500	0.0430	0.4162***	0.0463
No of US migrant siblings	-0.0190*	0.0113	0.0915***	0.0107
Spouse a US migrant	-0.8525***	0.0708	-0.2224***	0.0581
No. of US migrant children	-0.2319***	0.0248	-0.0752***	0.0176
No. of US-born children	-0.4398***	0.0649	-0.1007**	0.0364
Prop US migrants in Community	0.0113***	0.00149	0.0244***	0.00176
Physical capital				
Land	-0.0649	0.0559	0.2735***	0.0544
Home	-0.0956**	0.0433	0.4206***	0.0489
Business	0.0862	0.0696	0.0732	0.0674
Documentation				
Documented: temporary visa	_		2.2919***	0.1355
Documented: legalised under IRCA	_		0.5606***	0.0433
Undocumented: violated tourist visa	1.4008***	0.1047	_	
US context				
Border patrol budget (millions of \$2013)	-2.2199***	0.1637	0.5335***	0.0769
Rate of employment growth	-0.0015	0.0130	0.1065***	0.0173
Residence and work visas per capita	-0.0014^{***}	0.000142	0.0015***	0.000116
Mexican context				
Lagged crude birth rate	-0.0314**	0.0109	0.0840***	0.00923
Rate of GDP growth (\$2005)	-0.0063	0.00522	-0.0231***	0.00615
Homicide rate	-0.0570***	0.0106	0.0954***	0.0105
Community size				
>100.000	_		_	
10 000-99 999	0 8240***	0.0947	0 6248***	0 1058
2501-9999	0.8253***	0.0968	-0.1266	0.1128
<2500	0.7761***	0.0007	0.1200	0.1120
Intercept	0.2758	0.6202	-10 9758***	0.1100
Likelihood ratio	7136 /133***	0.0202	8271 8450***	0.3107
Wald	3673 1317***		5450 1343***	
Total number of person years	/3 103		12 878	
Total number of person-years	45,105		42,070	

Table 4. Discrete time event history model predicting likelihood of additional departurefor the USA 1970-2012.

*p < .05; **p < .01; ***p < .001.

undocumented migrants. The effects of human capital on the likelihood of additional documented migration generally parallel those observed for undocumented migrants, however, falling with skill, education and US experience but rising with each trip taken. With respect to social capital, the odds of taking another documented trip are greater for those with migrant parents and siblings and those living in communities characterised by a high prevalence of US migrants, but less for those with migrant spouses, migrant children and US-born children. Documented migrants owning land and a home are more likely to migrate again and repeat migration is greatest in midsized cities and small rural villages.

As on first trips, the odds of taking an additional documented trip are strongly predicted by having a temporary work visa, though the effect is not as powerful as in the earlier model, raising the odds of an additional departure 'only' 9.9 times. Moreover, when it comes to later documented trips, having received documents initially through IRCA is associated with a greater propensity towards repeat migration. Indeed, the odds of an additional documented departure are 75% greater among those who legalised under IRCA, people who of course began their careers as undocumented migrants, many of whom circulated.

Although additional *undocumented* trips are strongly inhibited by rising border enforcement, the size of the Border Patrol budget has a strong *positive* effect on the likelihood of taking additional *documented* trips. Each million dollar increase the Border Patrol budget raises the odds of additional documented migration by 70%. During times when border enforcement is intense and the costs and risk of undocumented border crossing are high, documented migrants become the ones who adopt a strategy of recurrent migration. As on first trips, the odds of taking an additional documented trip rise with US labour demand but unlike on first trips they are also boosted by a larger supply of legal visas.

Additional documented trips are also positively predicted by the lagged crude birth rate, which is consistent with view that demographic pressure is a driver of Mexican migration northward. Although the homicide rate had no effect on initial outmigration with or without documents, and whereas the effect on additional *undocumented* trips was negative, it has a positive effect on the likelihood of taking an additional *documented* trip, suggesting that those with the freedom to depart northward at will do so during periods of rising violence. As expected, departure on additional undocumented trips is negatively related to growth of the Mexican economy.

Table 5 completes our cycle of analysis by presenting logistic regression models predicting the likelihood of return within 12 months of entry on an additional undocumented or documented trip. The effect of age on the likelihood of returning from an additional trip is, as always, curvilinear for both documented and undocumented migrants and the odds of return are similarly greater for married persons in both groups. Whereas females are less likely than males to return from an additional trip if they are undocumented, it is females who are much more likely to return when they are documented.

Once again although skilled and educated undocumented migrants are less likely to leave on an additional trip, those who do leave are less likely to return home, and the odds of return also fall as the number of trips and US experience increase. Likewise, skilled and educated documented migrants are less likely to return within 12 months of entry. As on first trips, the odds of returning from an additional trip are lower for undocumented migrants with US social ties, with negative effects observed for having a migrant parent, migrant siblings, a migrant spouse and US-born children. The probability of return is also lower in communities with a high prevalence of US migrants. Although documented migrants are similarly less likely to return home if have migrant parents and spouses, they are more likely to return when they have migrant and US-born children, and neither the number of migrant siblings nor the prevalence of US migrants in the sending community have any discernable effect on the likelihood of return.

Whereas ownership of assets has no effect on the return behaviour of undocumented migrants, those with documents are more likely to return if they own land. Likewise, whereas community size has no effect on the odds of return migration by undocumented migrants, the likelihood of return is significantly lower for documented migrants coming from small cities and rural villages. As on first trips, the probability of returning from an additional undocumented trip is reduced by rising border enforcement but the size of the Border Patrol budget has no effect on the return behaviour of documented migrants. As before undocumented migrants travelling with a tourist visa and documented migrants travelling with a temporary visa are significantly more likely to return within 12 months of entry. However, whereas documented migrants who legalised under IRCA were less likely to return from a first trip, they were more likely to return from additional trips, again suggesting the divergent effects of IRCA on new and experienced migrants.

Although US contextual variables strongly influence the return behaviour of undocumented migrants they have no effect on those with documents. Each million dollar increment in the Border Patrol budget lowers the odds of undocumented return by about 25%, each percentage point increase in US employment reduces the odds of return by 5.5% and each unit increase in legal visas per capita lowers the odds of return by around 0.1%. On the Mexican side, the likelihood of return from an additional trip is reduced among both undocumented and documented migrants by the lagged crude birth rate. In addition, among documented migrants the odds of return migration are lowered by a rising homicide rate, again consistent with expectations.

The New Reality of Mexican Migration

Drawing on descriptive data from the MMP we assessed trends in the likelihood of departure and return among documented and undocumented migrants to the USA. The probability of taking a first trip to the USA among the undocumented averaged about 10 times that of documented migrants over the period 1970–2010, reflecting

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Returned from additional undocumented trip		Returned from additional documented trip	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		β	SE	β	SE
Age 0.0768^{***} 0.0177 0.0591^{**} 0.0241 Age squared -0.0009^{***} 0.000211 -0.000230 0.000251 Female -0.5232^{**} 0.0817 0.6084^{***} 0.11999 Married 0.3486^{***} 0.0817 0.6084^{***} 0.0231 Rama capital -0.0024 0.0142 -0.0637^{**} 0.0234 Labour force experience 0.0179^{**} 0.00638 -0.0020 0.00868 Education -0.0375^{***} 0.0090 0.1333^{***} 0.0131 Agricultural job $ -$ Unskilled job 0.2637^{***} 0.0244 -0.291^{***} 0.3276 Cumulative US experience -0.0132^{***} 0.000945 0.0021^{**} 0.00755 No of previous US trips -0.165^{***} 0.0113 -0.0626^{***} 0.0103 Social capital -0.2379^{***} 0.0639 -0.4877^{***} 0.1133 No of US migrant -0.9191^{***} 0.019 -0.0020 0.266 Spouse a US migrant -0.9191^{***} 0.0132 0.001^{**} 0.0319 No. of US migrant children -0.0999 0.0706 0.6973^{***} 0.0973 No of US-born children -0.0899 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.0937 </td <td>Demographic background</td> <td></td> <td></td> <td></td> <td></td>	Demographic background				
Age squared -0.0009^{***} 0.000211 -0.003 0.000251 Female -0.5232^{**} 0.1814 1.0192^{***} 0.1999 Married 0.3486^{***} 0.0817 0.6084^{***} 0.1488 No. of minors in household -0.0024 0.0142 -0.0637^{**} 0.0234 Human capital -0.0075^{***} 0.0090 0.133^{***} 0.0131 Agricultural job $ -$ Unskilled job 0.2637^{***} 0.0544 -0.9291^{***} 0.0947 Skilled job -0.3357 0.2124 -1.2574^{***} 0.3276 Cumulative US experience -0.0132^{***} 0.00145^{**} 0.001755 No of US migrant -0.2379^{***} 0.0639 -0.4877^{***} 0.00755 No of US migrant children -0.2379^{***} 0.0619 -0.0022 0.026 Spouse a US migrant -0.9191^{***} 0.1197 -0.4897^{**} 0.113 No. of US-born children -0.4792^{***} 0.1288 0.2525^{**} 0.0619 No. of US-born children -0.0939 0.0582 -0.0680 0.1007 Physical capital -0.0939 0.0582 -0.0680 0.10712 Land -0.0939 0.0582 -0.0680 0.0075 Bordne patrol budget (millions of \$2013) -0.2749^{**} 0.199 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.3226^{**} 0.0937 Border patrol budget (millions of \$2013)	Age	0.0768***	0.0177	0.0591**	0.0241
Female -0.5232^{**} 0.1814 1.0192^{***} 0.1999 Married 0.3486^{***} 0.0817 0.6084^{***} 0.1488 No. of minors in household -0.0024 0.0142 -0.0637^{**} 0.0234 Human capital $1.23000000000000000000000000000000000000$	Age squared	-0.0009***	0.000211	-0.0003	0.000251
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Female	-0.5232**	0.1814	1.0192***	0.1999
No. of minors in household -0.0024 0.0142 -0.0637^{**} 0.0234 Human capital Labour force experience 0.0179^{**} 0.00638 -0.0020 0.00868 Education -0.0375^{***} 0.0090 0.1333^{***} 0.0131 Agricultural job $ -$ Unskilled job 0.2637^{***} 0.0544 -0.9291^{***} 0.00945 Solidel job -0.3357 0.2124 -1.2574^{***} 0.3276 Cumulative US experience -0.0132^{***} 0.000945 0.0021^{**} 0.000755 No of previous US trips -0.1165^{***} 0.0113 -0.0626^{***} 0.0103 Social capital -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant siblings -0.0525^{**} 0.0699 -0.0026 0.026 Spouse a US migrant -0.9191^{***} 0.1197 -0.4897^{**} 0.1538 No. of US migrant children -0.0091 0.302 0.1001^{**} 0.0311 Prop US migrants in community -0.0092^{***} 0.0217 -0.0040 0.00351 Physical capital -0.0706 0.6973^{***} 0.0973 Home -0.0399 0.0766 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.00321 Documented: violated tourist visa 0.4272^{**} 0.1	Married	0.3486***	0.0817	0.6084***	0.1488
Human capital 0.0179** 0.00638 -0.0020 0.00868 Education -0.0375*** 0.0090 0.1333** 0.0131 Agricultural job - - - Unskilled job 0.2637*** 0.0544 -0.9291*** 0.0947 Skilled job -0.0132*** 0.0021** 0.0021** 0.0007** Cumulative US experience -0.0132*** 0.0639 -0.4877*** 0.103 Social capital - - - 0.0021** 0.00026** Parent a US migrant -0.2379*** 0.0639 -0.4877*** 0.113 No of US migrant siblings -0.0525** 0.0169 -0.002 0.026 Spouse a US migrant -0.49191*** 0.1197 -0.4897*** 0.1331 No. of US-born children -0.4792*** 0.1288 0.2525** 0.0851 Prop US migrants in community -0.0091 0.00217 -0.0040 0.00351 Physical capital - - 0.5687*** 0.973 Hame -0.0939 0.582 -0.0680 0.1007 Business 0.	No. of minors in household	-0.0024	0.0142	-0.0637**	0.0234
Labour force experience 0.0179^{**} 0.00638 -0.0020 0.00868 Education -0.0375^{***} 0.0090 0.133 0.0131 Agricultural job $ 0.0900$ 0.133 Marcell job 0.2637^{***} 0.0544 -0.9291^{***} 0.00947 Skilled job -0.3357 0.2124 -1.2574^{***} 0.3276 Cumulative US experience -0.0132^{***} 0.000945 0.0021^{**} 0.000755 No of US migrant -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant shilings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant -0.9191^{***} 0.1197^{**} 0.1113 0.0322 No. of US-born children -0.4792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0091 0.0302 0.1001^{**} 0.0319 No. of US-born children -0.4792^{***} 0.0217^{**} -0.0680 0.1007^{*} Home -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0809 0.0706 0.6973^{***} 0.0973 Bocumented: temporary visa $ 2.5648^{***}$ 0.1563 Documented: temporary visa $ 2.5648^{***}$ 0.1037 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1334 $-$ US context $ -0.0570^{**}$ 0.0199^{**} 0.0002 Laged crude birth rate -0.0289^{*} <	Human capital				
Education-0.0375***0.00900.1333***0.0131Agricultural jobUnskilled job0.2637***0.0544-0.9291***0.0947Skilled job-0.33570.2124-1.2574***0.3276Cumulative US experience-0.0132***0.0009450.0021**0.000755No of previous US trips-0.1165***0.0113-0.0626***0.0103Social capital0.0021**0.000755Parent a US migrant-0.02379***0.0639-0.4877***0.1113No of US migrant shilings-0.0525**0.0169-0.00200.026Spouse a US migrant children-0.00910.03020.1001**0.0319No. of US-born children-0.4792***0.12880.2525**0.0851Prop US migrants in community-0.0092***0.0217-0.00400.00351Physical capital0.5687***0.0973Land-0.08090.07060.6973***0.0973Home-0.09390.0582-0.06800.007Business0.07120.08630.15130.1191Documentation0.5687***0.0937Documented: violated tourist visa0.4272**0.1334-US context0.0570**0.0199-0.03280.0375Residence and work visas per capita-0.0010***0.0002-0.00010.000231Mexican context<	Labour force experience	0.0179**	0.00638	-0.0020	0.00868
Agricultural jobUnskilled job0.2637***0.0544-0.9291***0.0947Skilled job-0.33570.2124-1.2574***0.3276Cumulative US experience-0.0132***0.0009450.0021**0.000755No of previous US trips-0.1165***0.0113-0.0626***0.0103Social capital-0.2379***0.0639-0.4877***0.1113Parent a US migrant-0.9191***0.1197-0.4897**0.1538No of US migrant siblings-0.0525**0.0169-0.0020.026Spouse a US migrant-0.9191***0.1197-0.4897**0.1538No. of US migrant hildren-0.00910.03020.1001**0.0312Prop US migrants in community-0.0092***0.0217-0.00400.00351Physical capital-0.08090.07060.6973***0.0973Home-0.09390.0552-0.06800.1007Business0.07120.08630.15130.1191Documented: temporary visa-2.5648***0.1563Documented: temporary visa-0.0570**0.0199-0.0328Border patrol budget (millions of \$2013)-0.2749**0.10900.15140.1181Mate of GDP growth (\$2005)0.01180.007550.00300.0130Hexican context0.1633Lagged crude birth rate0.06550.114-Age of GDP growth (\$2005)0.01180.007550.0	Education	-0.0375***	0.0090	0.1333***	0.0131
Instruction 0.2637^{***} 0.0544 -0.9291^{***} 0.0947 Skilled job -0.3357 0.2124 -1.2574^{***} 0.3276 Cumulative US experience -0.0132^{***} 0.000945 0.021^{**} 0.000755 No of previous US trips -0.1165^{***} 0.0113 -0.626^{***} 0.0103 Social capital -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant -0.9191^{***} 0.1197 -0.4897^{***} 0.1538 No. of US migrant children -0.0991^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0992^{***} 0.0217^{**} 0.0400^{***} 0.00351 Physical capital -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: remporary visa $ 2.5648^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context -0.0570^{**} 0.0199^{**} 0.0002 0.000231 Mexican context -0.0289^{*} 0.0114^{**} -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755^{**} 0.0030 0.0130 Homicide rate 0.0011^{**} 0.026^{**} 0.0163^{**} 0.0026^{**} 0.0000 $ 0.0000^{**}$ 0.0118 <	Agricultural job	_	010020	_	010101
Skilled job -0.3357 0.2124 -1.2574*** 0.3276 Cumulative US experience -0.0132*** 0.000945 0.0021^{**} 0.000755 No of previous US trips -0.1165*** 0.0113 -0.626*** 0.0103 Parent a US migrant -0.2379*** 0.0639 -0.4877*** 0.1113 No of US migrant children -0.0191*** 0.1169 -0.0002 0.026 Spouse a US migrant -0.9191*** 0.1197 -0.4897** 0.1538 No. of US migrant children -0.0091 0.0302 0.1001^{**} 0.0319 No. of US-born children -0.4792*** 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0099 0.0706 0.6973^{***} 0.0973 Home -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: legalised under IRCA - 0.5687^{***} 0.0937 Undocumented: tomporary visa - <td>Unskilled job</td> <td>0.2637***</td> <td>0.0544</td> <td>-0.9291***</td> <td>0.0947</td>	Unskilled job	0.2637***	0.0544	-0.9291***	0.0947
Cumulative US experience -0.013^{***} 0.000945 0.0021^{**} 0.000755 No of previous US trips -0.1165^{***} 0.0113 -0.0626^{***} 0.0103 Social capital -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 Parent a US migrant -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant siblings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant -0.9191^{***} 0.1197 -0.4897^{**} 0.1538 No. of US migrant children -0.0091 0.0302 0.1001^{**} 0.0319 No. of US-born children -0.4792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.092^{***} 0.00217 -0.0040 0.00351 Physical capital -0.0809 0.0706 0.6973^{***} 0.0973 Land -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.1563 Documented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context $ 2.5648^{***}$ 0.0937 Residence and work visas per capita -0.0074^{**} 0.0002 -0.0001 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} $0.$	Skilled job	-0.3357	0.2124	-1.2574***	0.3276
No of previous US trips -0.1165^{***} 0.0113 -0.0626^{***} 0.0103 Social capital -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant siblings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant children -0.0191^{***} 0.1197 -0.4897^{**} 0.1538 No. of US migrant children -0.0792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0092^{***} 0.00217 -0.0040 0.00351 Physical capital -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.5687^{***} 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $ US context$ Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged orue birth rate -0.0758 0.1264 -0.6077^{***} 0.1973 Lagged orue birth rate -0.0758 0.1264 -0.6077^{***} 0.1973 Linercept<	Cumulative US experience	-0.0132***	0.000945	0.0021**	0.000755
No of previous0.01030.00130.00130.0013Parent a US migrant -0.2379^{***} 0.0639 -0.4877^{***} 0.1113No of US migrant siblings -0.0525^{***} 0.0169 -0.0002 0.026Spouse a US migrant children -0.0911^{***} 0.1197 -0.4897^{***} 0.1538No. of US born children -0.0091 0.03020.1001**0.0319No. of US-born children -0.4792^{***} 0.12880.2525**0.0851Prop US migrants in community -0.0092^{***} 0.0217 -0.0400 0.00351Physical capital -0.0809 0.07060.6973***0.0973Land -0.0809 0.07060.6973***0.0973Home -0.0939 0.0582 -0.0680 0.1007Business 0.0712 0.08630.15130.1191Documented: temporary visa $ 2.5648^{***}$ 0.1563Documented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context 0.0012^{**} 0.0199 -0.0328 0.0375Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.00011 0.000231Mexican context -0.0010^{***} 0.0002 -0.0001 0.000231Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163Rate of GDP growth (\$2005)0.01180.007550.00300.0130Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159Community size $>>$ <td>No of previous US trips</td> <td>-0.1165***</td> <td>0.0113</td> <td>-0.0626***</td> <td>0.0103</td>	No of previous US trips	-0.1165***	0.0113	-0.0626***	0.0103
DocumentationParent a US migrant -0.2379^{***} 0.0639 -0.4877^{***} 0.1113 No of US migrant siblings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant -0.9191^{***} 0.1197 -0.4897^{***} 0.1538 No. of US born children -0.0091 0.0302 0.1001^{**} 0.0319 No. of US-born children -0.4792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0092^{***} 0.00217 -0.0400 0.00351 Physical capital -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1107 Business 0.0712 0.0863 0.1513 0.1197 Documented: temporary visa $ 2.5648^{***}$ 0.1563 Documented: legalised under IRCA $ 0.5687^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context -0.070^{***} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.114 -0.6134^{***} 0.1841 2501-9999 0.0655 0.1184 -0.6134^{***} 0.1841 2500 -0.0758 0.1264 -0.6077^{***} 0.9024 Likelih	Social capital	0.1105	0.0115	0.0020	0.0105
No of US migrant siblings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant siblings -0.0525^{**} 0.0169 -0.0002 0.026 Spouse a US migrant children -0.0911^{***} 0.1197 -0.4897^{**} 0.1538 No. of US born children -0.0792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.092^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.092^{***} 0.00217 -0.0040 0.00351 Physical capital -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.5637^{***} 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $ US$ contextBorder patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0002 -0.0001 0.000231 Mexican context $Uagged$ $Uagged$ $Uagged$ $Uagged$ $Uagged$ $Uagged$ Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homide rate 0.0032 0.6552 -1.184 0.0677^{***} 0.1973 Intercept<	Parent a US migrant	-0 2379***	0.0639	-0 4877***	0 1113
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	No of US migrant siblings	-0.0525**	0.0169	-0.0002	0.026
Dysical ComparisonDysical ComparisonDysi	Shouse a US migrant	-0.9191***	0.1197	-0.4897**	0.1538
No. of US-born children -0.4792^{***} 0.1288 0.2525^{**} 0.0851 Prop US migrants in community -0.0092^{***} 0.00217 -0.0040 0.00351 Physical capital -0.0809 0.0706 0.6973^{***} 0.0973 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documentation 0.0712 0.0863 0.1513 0.191 Documented: temporary visa $ 2.5648^{***}$ 0.0567^{***} 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $ US$ contextBorder patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0265^{*} 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $ -$ >100,000 $ 0.0032$ 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 0.9024 Likelihood ratio 2195.4401^{***} 1120.2678^{***} Wald	No of US migrant children	-0.0091	0.0302	0.1001**	0.0319
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	No of US-born children	-0.4792***	0.1288	0.2525**	0.0851
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Prop US migrants in community	-0.0092***	0.00217	-0.0040	0.00351
Information -0.0809 0.0706 0.6973^{***} 0.0973 Land -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documentation $ 2.5648^{***}$ 0.0937 Documented: temporary visa $ 0.5687^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context $ 0.5687^{***}$ 0.0937 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context $ -$ Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $ -$ >100,000 $ 40000^{-}=0.0255$ 0.1184 -0.6134^{***} 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 0.9024 Likelihood ratio 2195.4401^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***}	Physical capital	0.0072	0.00217	0.0010	0.00551
Hand -0.0939 0.0782 -0.09375 0.0775 Home -0.0939 0.0582 -0.0680 0.1007 Business 0.0712 0.0863 0.1513 0.1191 Documentation $ 2.5648^{***}$ 0.1563 Documented: temporary visa $ 0.5687^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context $ 0.5687^{***}$ 0.0937 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context $ -$ Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $ -$ >100,000 $ 25500$ -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 12392	Land	-0.0809	0.0706	0 6973***	0.0973
Initial 0.0712 0.0863 0.1503 0.1603 Business 0.0712 0.0863 0.1513 0.1191 Documentation 0.0712 0.0863 0.1513 0.1191 Documented: temporary visa $ 2.5648^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context 0.05687^{***} 0.0997 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $>$ $ >100,000$ $ < > >0.0002$ -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 12.392	Home	-0.0939	0.0582	-0.0680	0.1007
Documentation 0.0712 0.0712 0.0712 0.0713 Documented: temporary visa $ 2.5648^{***}$ 0.1563 Documented: legalised under IRCA $ 0.5687^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context -0.0570^{**} 0.0199 -0.0328 0.0375 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $>100,000$ $ >100,000$ $ < 2000$ -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 12.392	Business	0.0712	0.0863	0.1513	0 1 1 9 1
Documented:2.5648***0.1563Documented:legalised under IRCA $ 0.5687^{***}$ 0.0937 Undocumented:violated tourist visa 0.4272^{**} 0.1334 $-$ US context -0.0570^{**} 0.0190 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $>100,000$ $ >100,000$ $ 2500$ -0.0758 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1423.0589^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***}	Documentation	0.0712	0.0000	0.1010	0.1171
Documented: legalised under IRCA $ 0.5687^{***}$ 0.0937 Undocumented: violated tourist visa 0.4272^{**} 0.1334 $-$ US context 0.4272^{**} 0.1334 $-$ Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^{*} 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^{*} 0.0159 Community size $>$ $ -$ >100,000 $ 2500$ -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1423.0589^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***}	Documented: temporary visa	_		2 5648***	0 1563
Decimination regarded under free free free free free free free f	Documented: legalised under IRCA	_		0.5687***	0.0937
US context 0.1272 0.1272 0.1091 Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^* 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^* 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^* 0.0159 Community size $>100,000$ $ -$ >100,000 $ -$ 12,000 $ -$ 12,000 $ -$ 10,000-99,999 0.1669 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 12.392	Undocumented: violated tourist visa	0 4272**	0 1 3 3 4		0.0957
Border patrol budget (millions of \$2013) -0.2749^{**} 0.1090 0.1514 0.1181 Rate of employment growth -0.0570^{**} 0.0199 -0.0328 0.0375 Residence and work visas per capita -0.0010^{***} 0.0002 -0.0001 0.000231 Mexican context -0.0289^* 0.0114 -0.0476^{**} 0.0163 Lagged crude birth rate -0.0289^* 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^* 0.0159 Community size $>$ $ >100,000$ $ 2500$ 0.0655 0.1184 -0.6134^{***} 0.1883 $2501-9999$ 0.1669 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 12.392	US context	0.12/2	0.1001		
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Lagged crude birth rate -0.0289^* 0.0114 -0.0476^{**} 0.0163 Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^* 0.0159 Community size $ 10,000-99,999$ 0.0655 0.1184 -0.6134^{***} 0.1883 $2501-9999$ 0.1669 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***} 1120.2678^{***}	Mexican context	0.0010	0.0002	0.0001	0.000201
Rate of GDP growth (\$2005) 0.0118 0.00755 0.0030 0.0130 Homicide rate 0.0011 0.0126 -0.0265^* 0.0159 Community size $>100,000$ $ 10,000-99,999$ 0.0655 0.1184 -0.6134^{***} 0.1883 $2501-9999$ 0.1669 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***}	Lagged crude birth rate	-0.0289*	0.0114	-0.0476**	0.0163
Name of observe growth (42000) 0.0110 0.0010 0.0010 0.0010 Homicide rate 0.0011 0.0126 -0.0265^* 0.0159 Community size $>100,000$ $ 10,000-99,999$ 0.0655 0.1184 -0.6134^{***} 0.1883 $2501-9999$ 0.1669 0.1202 -0.0165 0.1841 ≤ 2500 -0.0758 0.1264 -0.6077^{***} 0.1973 Intercept 0.0032 0.6582 -2.4758^{**} 0.9024 Likelihood ratio 2195.4401^{***} 1403.7323^{***} 1120.2678^{***} Wald 1283.0589^{***} 1120.2678^{***}	Rate of GDP growth (\$2005)	0.0118	0.00755	0.0030	0.0130
Community size $ >100,000$ $ 10,000-99,999$ 0.0655 0.1184 $2501-9999$ 0.1669 0.1202 2500 -0.0758 0.1264 -0.0758 0.1264 -0.6077^{***} 0.0032 0.6582 -2.4758^{**} 0.9024 1283.0589^{***} 1120.2678^{***} $Vald$ 1283.0589^{***} 1120.2678^{***}	Homicide rate	0.0011	0.0126	-0.0265*	0.0159
$\begin{array}{c c} - & - & - \\ 10,000 & -99,999 & 0.0655 & 0.1184 & -0.6134^{***} & 0.1883 \\ 2501-9999 & 0.1669 & 0.1202 & -0.0165 & 0.1841 \\ \leq 2500 & -0.0758 & 0.1264 & -0.6077^{***} & 0.1973 \\ \text{Intercept} & 0.0032 & 0.6582 & -2.4758^{**} & 0.9024 \\ \text{Likelihood ratio} & 2195.4401^{***} & 1403.7323^{***} \\ \text{Wald} & 1283.0589^{***} & 1120.2678^{***} \\ & \text{Total number of person-years} & 12.402 & 12.392 \\ \end{array}$	Community size	0.0011	0.0120	0.0200	0.0109
$\begin{array}{ccccccc} 0.000-99,999 & 0.0655 & 0.1184 & -0.6134^{***} & 0.1883 \\ 2501-9999 & 0.1669 & 0.1202 & -0.0165 & 0.1841 \\ \leq 2500 & -0.0758 & 0.1264 & -0.6077^{***} & 0.1973 \\ \text{Intercept} & 0.0032 & 0.6582 & -2.4758^{**} & 0.9024 \\ \text{Likelihood ratio} & 2195.4401^{***} & 1403.7323^{***} \\ \text{Wald} & 1283.0589^{***} & 1120.2678^{***} \\ & & & & & & \\ 12402 & & & & & & & \\ \end{array}$	>100,000	_		_	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 000-99 999	0.0655	0 1184	-0.6134***	0 1883
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2501-9999	0.1669	0.1202	-0.0165	0.1841
Likelihood ratio 2195.4401*** 1403.7323*** Wald 1283.0589*** 1120.2678*** 12402 12.392	<2500	-0.0758	0.1264	-0.6077***	0.1973
Likelihood ratio 2195.4401*** 1403.7323*** Wald 1283.0589*** 1120.2678*** Total number of person-years 12 402 12 392	Intercept	0.0032	0.6582	-2.4758**	0.9024
Wald 1283.0589*** 1120.2678*** Total number of person-years 12 402 12 392	Likelihood ratio	2195 4401***	0.0002	1403 7323***	0.7021
Total number of person-years 12 402 12 302	Wald	1283.0589***		1120.2678***	
10/07/07/07/07/07/07/07/07/07/07/07/07/07	Total number of person-years	12,402		12,392	

Table 5. Logistic regression model predicting likelihood return from additional US tripwithin 12 months of entry 1970–2012.

*p < .05; **p < .01; ***p < .001.

the numerical limitation of entry visas after 1965. Throughout the period both documented and undocumented migrants responded to fluctuations in US labour demand and Mexican economic growth, but secular variation in migration probabilities was greater among undocumented migrants, who are not constrained by visa limitations but willing to face the costs and risks of unauthorised border crossing. In general, limiting the supply of legal visas seems to channel migrants into the undocumented flow who otherwise would have migrated with temporary visas.

By the late 2000s, probabilities of undocumented departure had fallen to very low levels. Before 2000 the probability of initiating undocumented migration went as high as 0.124 but by 2010 it had fallen to an all-time low of 0.001. Our analyses suggest that this decline stemmed from the ageing of the Mexican population, the weakening of US labour demand, rising levels of Mexican education, a decline in the number of rural dwellers, greater access to home and business ownership and the rising prevalence of spouses and children in the USA. It is definitely *not* because of increased US border enforcement, which had *no* significant effect on the likelihood of taking a first undocumented trip. For documented migrants, the likelihood of taking a first US trip was driven primarily by social connections to people in a position to sponsor legal entry or provide access to a temporary work visa.

Once in the USA, new documented and undocumented migrants displayed divergent trends in the likelihood of returning home. Prior to 1986 the probability of returning from a first US trip was high irrespective of legal status, averaging 0.52 for documented migrants and 0.55 for undocumented migrants. After 1986, however, the likelihood of return migration rose to 1.0 for documented migrants but fell to 0.21 for undocumented migrants. Although rising border enforcement had no apparent effect on the likelihood that undocumented Mexicans would *depart* for the USA, it had a very strong effect in *reducing* likelihood that they would *return* to Mexico. Statistical analysis indicates that the rising rate of return migration among documented migrants stemmed from increased access to temporary visas.

Among experienced migrants, probabilities of taking an additional US trip also diverged after 1986 on the basis of legal status. Whereas the likelihood of a *documented* departure rose from around 0.060 in 1986 to around 0.152 in 2000, the probability of additional *undocumented* migration rose only from 0.049 to 0.062 over the same period. After 2000 the probability of taking another US trip fell for both groups, but beginning in 2007 the decline reversed itself for documented migrants but continued to fall for undocumented migrants. As of 2010 the probability of taking an additional US trip stood at 0.125 for documented migrants compared to just 0.029 for undocumented migrants.

Our analyses indicate that the drop in the likelihood of additional undocumented migration was driven mainly by the increase in border enforcement after 1986. Each million dollar increase in the real value of the Border Patrol budget reduced the odds of an additional undocumented departure by 89%. Rising border enforcement thus played a key role in curtailing the circulation of undocumented migrants that had prevailed before IRCA. As the supply of legal visas later rose, the likelihood of

undocumented departure fell. Thus shifts in the circular migration of undocumented migrants were driven by US policies, not by changes in economic conditions in Mexico or the USA.

Precisely the opposite dynamic prevailed among documented migrants, whose odds of taking additional trips rose with the supply of legal visas and were greatly increased by individual access to a temporary visa. Moreover, as the real value of the Border Patrol budget increased, the likelihood of taking an additional documented trip steadily rose. Migrants legalised under IRCA displayed a significantly higher likelihood of repeat migration than other documented migrants and documented migrants generally displayed departure probabilities that were closely connected to social and economic circumstances in each nation, rising in response to US labour demand and falling with economic growth in Mexico.

The divergence in return probabilities by legal status observed for first trips was also detected on later trips. Whereas in 1989 the probability of returning from an additional trip within 12 months was 0.77 irrespective of legal status, by 2007 the probability had risen to 0.92 for documented migrants but fallen to 0.43 for documented migrants. Statistical models again indicate that the falling rate of return migration among undocumented migrants stemmed from the increasing intensity of border enforcement and greater access to legal visas, which dominated the effects of binational economic conditions. Among documented migrants, the likelihood of returning from a later trip was powerfully affected by US policies. Those having temporary visas and those legalised under IRCA were much more likely than other documented migrants to return from a latter trip. The odds of returning from a later documented trip were not directly influenced by economic conditions in Mexico or the USA, however, but they did fall as the size of labour market cohorts increased and violence in Mexico rose.

Obviously Mexico–US migration is a complex and dynamic system with many internal feedbacks and numerous endogenous processes. From 1965 to 1985 the system was characterised by circular movement, with the vast majority of undocumented migrants moving back and forth across the border on a regular basis. As a result, the undocumented population grew slowly from 1965 to 1985. Although IRCA's legalisation reduced the undocumented population after 1986, border militarisation subsequently reduced the likelihood of return migration by those without documents but had no effect on their likelihood departure, which increased the net inflow and accelerated undocumented population growth, which climbed from 1.9 million in 1988 to 12 million in 2008.

Among documented migrants, in contrast, migration continues in response to changing economic circumstances on both sides of the border, facilitated by a substantial expansion of access to temporary visas and the growing use of family preferences to sponsor new permanent residents. The persistence of northbound migration by documented migrants has been accompanied by a sharp increase in their likelihood of return. As a result, circular migration has ironically become the province of documented migrants while settlement now characterises the situation of undocumented migrants, who are 'caged in' and unable to return while those with documents are 'free range' and able to cross the border at will.

Our findings have both theoretical and policy implications. Theoretically they point to the salience of mechanisms posited by social capital theory and NELM as driving forces in the Mexico–US migration system, but they also underscore the role of the state in shaping migration flows in practice. With respect to policy, our results underscore the counterproductive nature of border enforcement. Rather than *reducing* undocumented departures, border enforcement instead lowered the undocumented returns to *accelerate* undocumented population growth. The high rate of return migration among those with documents also suggests the efficacy of legalisation as a component of immigration reform. Temporary work visas match the preference for circular migration posited by NELM and the high rate of return even among those with legal residence visas suggests that regularisation could well produce a net outflow of former unauthorised migrants back to Mexico.

References

- Aguirre Botello, Manuel. 2011. México, Tasa de Homicidios por 100 Mil Habitantes Desde 1931 a 2011 [Mexican Homicide Rates per 100,000 Inhabitants from 1931 to 2011]. Mexico City: Website of México Máxico. Accessed April 22, 2013. http://www.mexicomaxico.org/Voto/Homicidios100M.htm.
- Angelucci, M. 2012. "US Border Enforcement and the Net Flow of Mexican Illegal Migration." Economic Development and Cultural Change 60 (2): 311–357. doi:10.1086/662575.
- Cerrutti, Marcela, and Douglas S. Massey. 2001. "On the Auspices of Female Migration between Mexico and the United States." *Demography* 38: 187–200.
- Garip, Filiz. 2012. "Discovering Diverse Mechanisms of Migration: The Mexico—US Stream 1970–2000." Population and Development Review 38 (3): 393–433. doi:10.1111/j.1728-4457.2012.00510.x.
- Hoefer, Michael, Nancy Rytina, and Bryan C. Baker. 2012. Estimates of the Unauthorized Immigrant Population Residing in the United States: January 2011. Washington, DC: Office of Immigration Statistics, U.S.
- Jasso, Guillermina, and Mark R. Rosenzweig. 1982. "Estimating the Emigration Rates of Legal Immigrants Using Administrative and Survey Data: The 1971 Cohort of Immigrants to the United States." *Demography* 19 (3): 279–290. doi:10.2307/2060971.
- Massey, Douglas S., and Audrey Singer. 1995. "New Estimates of Undocumented Mexican Migration and the Probability of Apprehension." *Demography* 32: 203–213.
- Massey, Douglas S., and Fernando Riosmena. 2010. "Undocumented Migration from Latin America in an Era of Rising U.S. Enforcement." *The ANNALS of the American Academy of Political* and Social Science 630 (1): 294–321. doi:10.1177/0002716210368114.
- Massey, Douglas S., Joaquín Arango, Graeme Hugo, Ali Kouaouci, Adela Pellegrino, and J. Edward Taylor. 1998. Worlds in Motion: Understanding International Migration at the End of the Millennium. Oxford: Oxford University Press.
- Massey, Douglas S., Jorge Durand, and Nolan J. Malone. 2002. Beyond Smoke and Mirrors: Mexican Immigration in an Age of Economic Integration. New York: Russell Sage Foundation.
- Massey, Douglas S., and Karen A. Pren. 2012. "Unintended Consequences of US Immigration Policy: Explaining the Post-1965 Surge from Latin America." *Population and Development Review* 38: 1–29.
- Massey, Douglas S., and Kristen E. Espinosa. 1997. "What's Driving Mexico-U.S. Migration? A Theoretical, Empirical and Policy Analysis." *American Journal of Sociology* 102: 939–999.

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- Massey, Douglas S., Rafael Alarcón, Jorge Durand, and Humberto González. 1987. Return to Aztlan: The Social Process of International Migration from Western Mexico. Berkeley, CA: University of California Press.
- Mitchell, Brian R. 2007. International Historical Statistics: The Americas, 1750–2005. London: Palgrave Macmillan.
- National Council of State Legislatures. 2012. *State Laws Related to Immigrations*. Washington, DC: National Council of State Legislatures. Accessed August 15, 2014. http://www.ncsl.org/ research/immigration/state-laws-related-to-immigration-and-immigrants.aspx#2013JanJune.
- Parrado, Emilio A. 2012. "Immigration Enforcement Policies, the Economic Recession, and the Size of Local Mexican Immigrant Populations." Annals of the American Academy of Political and Social Science 641: 16–37.
- Passel, Jeffrey, D'Vera Cohn, and Ana González-Barrera. 2012. Net Migration from Mexico Falls to Zero-and Perhaps Less. Washington, DC: Pew Hispanic Center.
- Reyes, Belinda. 2004a. "U.S. Immigration Policy and the Duration of Undocumented Trips." In Crossing the Border Research from the Mexican Migration Project, edited by Jorge Durand, and Douglas S. Massey, 299–321. New York: Russell Sage Foundation.
- Reyes, Belinda. 2004b. "Changes in Trip Duration for Mexican Immigrants to the United States." *Population Research and Policy Review* 23 (3): 235–257. doi:10.1023/B:POPU.0000034101. 62839.06.
- Riosmena, Fernando. 2010. "Policy Shocks: On the Legal Auspices of Latin American Migration to the United States." The ANNALS of the American Academy of Political and Social Science 630: 270–293.
- Rocha, Rene R., Daniel P. Hawes, Alisa Hicklin Fryar, and Robert D. Wrinkle. 2014. "Policy Climates, Enforcement Rates, and Migrant Behavior: Is Self-deportation a Viable Immigration Policy?" *The Policy Studies Journal* 42 (1): 79–100.
- Rosenblum, Marc R. 2012. Border Security: Immigration Enforcement between Ports of Entry. Washington, DC: Congressional Research Service.
- Stark, Oded. 1991. The Migration of Labor. Cambridge: Basil Blackwell.
- Todaro, Michael P., and Lydia Maruszko. 1986. "Illegal Migration and U.S. Immigration Reform: A Conceptual Framework." *Population and Development Review* 13 (1): 101–114.
- United Nations Population Division. 2014. Website of the United Nations Population Division. New York: United Nations. Accessed July 13, 2014. http://esa.un.org/unpd/wpp/unpp/ panel_population.htm.
- U.S. Bureau of labor Statistics. 2014. Website of the U.S. Bureau of labor Statistics. Accessed July 2, 2014. http://www.bls.gov/.
- U.S. Department of Agriculture Economic Research Service. 2014. Website of the Economics Research Service. Accessed July 8. http://www.ers.usda.gov/data-products/internationalmacroeconomic-data-set.aspx.
- U.S. Immigration and Customs Enforcement. 2014. Fact Sheet: Delegation of Immigration Authority Section 287(g) Immigration and Nationality Act. Washington, DC: U.S. Department of Homeland Security. Accessed August 15, 2014. http://www.ice.gov/news/library/factsheets/ 287g.htm.
- U.S. Office of Immigration Statistics. 2014. Website of the U.S. Office of Immigration Statistics. Accessed July 10, 2014. http://www.dhs.gov/immigration-statistics.