

Over the past two decades, the remains of more than 3,900 migrants have been found in Southern Arizona, with untold others dying, never to be discovered. The humanitarian disaster is intensifying anew, judging from the summer of 2021. Above, a wooden cross was erected in memorial to Maria V. Cortez in the foothills of the Baboquivari Mountains southwest of Tucson

Desperation swells in Ariz. borderlands

Migrants on foot are perishing in greater numbers

CURT PRENDERGAST AND ALEX DEVOID Arizona Daily Star

Scar's phone bat-fery was failing as the tried to stay on the line with the the tried to stay on the line with the the tried to stay on the line with the the Arizona-Mex-ico border southwest of Tucson few days earlier, but the was running out of food and couldn't keep walking through the Babo-quivari Mountains. His call to 31 and during a record heat wave that turned September 2020 into one of the dealliest months for migrants ever recorded in South-tor Arizona. "Tholost and alone," Oscar said through a study connection with

scar's phone bat-

through a shaky connection with a dispatcher at the Pima County

a dispatcher at the Pina County Sherff's Department, which re-corded the call. "I've been lost of two days and I have almost nothing to eat here so I called this number." The battery was running out. "It's down to 5%, 'he said. The dispatcher connected Oscar's call to the Border Patrol, but the call dropped even though multiple carriers provided cover-age in the location he called from. "Hopefully, he's able to call back,' the Border Patrol agent said.

back; 'the Border Patrol agent said. Oscar called again but the call dropped. He called again, and this time the coordinates showed him to be about a mile away from the site of his original call. "I only have 3% of my battery left,' he said. An agent toldhim to send a text message through the WhatsApp messaging service in-stead of using his phone battery on a call. Oscar called back again, plead-ing, "please don't leave me here." The Border Patrol sent an aircraft to look for him, but Oscar said it was flying on the wrong side of said.

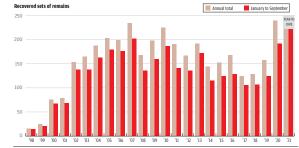
was flying on the wrong side of the mountain.

"I don't want to be here anymore," Oscar said. "I don't have anything left. I didn't think things were going to be so hard

things were going to be so nara here." His battery was at 2%. "My wife is about to give birth and I prefer to just go back there. This is killing me," Oscar said. He started to sob. A Border Patrol agent took over the call and the 911 audio record-ing stopped.

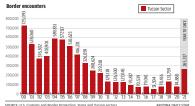
2021 on pace to be one of deadliest years on record

The long-running crisis of migrant deaths in Southern Arizona is intensifying. The remains of 239 migrants were found in Southern Arizona in 2020, more than any other year on record. This year is on pace to be even worse. The remains of 222 migrants were found from January to September, compared to 192 sets of remains during the same period last year.



Long decline in border crossings starts to reverse

Border Patrol officials in Arizona reported a steady decline in the number of migrants caught crossing the border since the early 2000s. That trend has started to change in recent years, particularly with more adults from Mexico and Guatemala in 2021.



Oscar's fate isn't known. The Sheriff's Department later said the Border Patrol found him, but the Border Patrol could not find any record of what happened to

him. He was one of thousands of He was one of thousands of migrants who cross the border in Southern Arizona every year. Each year, many of them are overwhelmed by the harsh des-erts and mountains, leading to distress calls to 911 dispatchers, family members and local hu-manitarian groups. Some find help. Others do not. Over the past two decades,

the remains of more than 3,900 migrants were found in Southern Arizona, according to the Pima County Medical Examiner's Office, the Tucson-based aid group Humane Borders, and the Yuma County Sheriff's Office. An un-known number of others also

known number of others also died while crossing the border, but their remains were never found. The long-running humani-tarian disaster is intensifying. Within weeks of Oscar's calls for help, the remains of 30 migrants were found, making September 2020 the deadliest month since

2013. By the end of the year, the remains of 239 migrants had been found, more than any other year since large-scale deaths in the desert of Southern Arizona be-gan in 2000. Until this summer.

Until this summer. After the remains of 52 mi-grants were found in June, more than any month since 2010, the death toll so far in 2021 is on pace death tolls of ar in 2021 is on pace to surpass last year. The remains of 222 migrants were found in Southern Arizona from January through September, compared to 192 during the same period last year and 124 during that period in 2019. "2020 does not look like a one-year blip," said Dr. Greg Hess, Pima County's medical examiner, who oversees the vast majority of remains recovered in Southern Arizona. "We're super busy over these types of remains

busy over these types of remains in 2021 and I imagine we're going to come close to the numbers we had last year."

had last year." The increase in migrant deaths is raising the stakes for President Joe Biden as he seeks to overhaul immigration policy. Hundreds of predictable and preventable deaths could continue for the foreseeable future without ur

Please see CRISIS, Page F2



Crisis From F1

gent and sustained action by

gent and sustained action by federal authorities, but that ac-tion is nowhere on the horizon. As has been the case for the past two decades, the thousands of migrant deaths fill around the periphery of the immigration de-bate but rarely become the center of attention. Biden has proposed a wide array of new immigration and border policies, but they are not aimed at helping migrants in the desert. the desert.

To understand the crisis, the

To understand the crisis, the Arizona Daily Star analyzed medical examiner data in mul-tiple Southern Arizona counties and built a statistical model of migrant deaths. We listemed to audio record-ings of 911 calls from migrants and reviewed incident reports from law enforcement agencies. We also tracked how lawmak-ers discussed those deaths; and interviewed migrants, scholars and officials. We visited sites where migrants died, and walked through the desert and moun-

where migrants died, and walked through the desert and moun-tains with Border Patrol agents and humanitarian volunteers. The Star found the Border Pa-trol, humanitarian groups and local law enforcement work hard to rescue migrants. But no one is in charge of those efforts or held accountable, despite the need to coordinate across 20 jurisdic-tions and work with humanitar-ian groups and the families who lost loved ones in the desert. The Star also found the scope of the crisis remains unclear,

The Star also found the scope of the crisis remains unclear, even after two decades of mi-grants dying in large numbers in the desert. The Pima County Medical Examiner's Office is the only agency involved that does not take a lethargic approach to ercord -keeping. As a result, mi-grant deaths tend to be treated as isolated indicaths, rather than as part of a large phenomenon. Perhaps most importantly, the lack of clear rules for providing humanitarian aid blocks the in-tellectual power and volunteer

humanitarian aid blocks the in-tellectual power and volunteer energy the Tucson community unleashes when an extraordinary migration event occurs, from the Sanctuary Movement in the 1980s, when Tucson churches and activists helped refugees fleeing violent conflict in Cen-tral American countries, to the volunteers and donations that keep the Casa Alitas shelter for asvium-seeking families in Tucasylum-seeking families in Tuc-son running today.

All this is unfolding as the U.S. Senate considers the nomination of Chris Magnus, current chief of the Tucson Police Department, to be the next commissioner of Customs and Border Ptotection, which oversees the Border Patrol. A key committee narrowly ap-proved moving forward with his nomination process on Nov. 3. The Star's investigation found that: that:

Exposure to the elements, par-Exposure to the elements, par-ticularly heat, is the most com-mon cause of death, leading to the 1,860 sets of skeletal remains where cause of death was unde-termined. The journey has grown more dangerous over the years, due in part to walls and barriers funnel-



This couple from the Mexican state of Oaxaca had already walk south of the U.S. border when they encountered Border Patrol Vasavilbaso a few miles north of it. They said they couldn't con walked for days atrol Agent Jesus 't continue.

fall into the open-border discus-sion," Grijalva said. "So politi-cians have backed away from it." Without clear guidance from Congress, the public policy re-sponse to migrant deaths re-mains caught between opposing arruments.

arguments. On one hand, the argument

"Strong border security and

ilbaso said.

ing migrants into remote areas. Today, remains are found an av-erage of 17 miles from towns. Southern Arizona's desert is as large as several states, but deaths are concentrated in specific ar-eas. About half the deaths in 2021 countered in 647, of that several

occurred in 6% of that area. Migrants often can't call for help. At least 514 migrants died in areas without cellphone cov-

Maraas without compliant con-erage. Migrants often die just hours before help arrives. More than 1,000 migrants died less than 24 hours before the discovery of their remains.

Opposing principles The political decisions that shape the official response to shape the official response to migrant deaths have become wrapped up in the debate over border enforcement without being "elevated to the discussion it needs to have," said U.S. Rep. Raid Grijava, a Democrat who has represented districts along Arizona's border with Mexico since 2003. "Politically, if you show any empathy, any response short of enforcement, then for some rea-son you fall into the category of those that don't want to do any-

those that don't want to do any-thing about the border, and you

"Strong border security and interior enforcement is the best way to stop loss of life," U.S. Rep. Guy Reschenthaler, a Republican from Pennsylvania, said during a debate on the House floor in December 2020, over a bill that would direct federal officials to count migrant deaths. "In reality, to prevent future deaths at the border, we need to make it absolutely clear that no one should embark on this dan-gerous journey because illegal

Migrant deaths and border walls in 2021

 redestrian fencing. One of the areas without these barriers, the Tohono O'odham Nat 78 migrants were found on the eastern portion of the tribal nation and 14 on the wester than any other area since 2000. two-thirds of Arizon d so far in 2021 than



CES: Migrant deaths provided by Yuma nty Sheriff's Office

The reporters

entry is simply not an option," Reschenthaler said. On the other hand, the argu-Curt Prendergast has been with the Star since 2015, EN.

On the other hand, the argu-ment is that border enforcement strategies put migrants' lives in danger by leaving only one op-tion, crossing through deady terrain rather than through ports of entry, as they look for a better life in the United States or flee poverty, corruption and violence in their home countries. In 2005, ULS, Rep. Jim Kolbe, a Republican who represented Southern Arizona from 1985-2007, described a "hard lesson" learned in Arizona after a vast increase in the number of Border increase in the number of Border Patrol agents and technology in previous years: "No matter how much we increase our enforce-ment, still the illegal migrants kept coming, at the same rate or faster than they had come in previous years." "The border buildup did not stop the flow; it merely shifted it to more dangerous areas, where apprehensions are more difficult and death more likely? Kolbe said in remarks on the House floor,

in remarks on the House floor, archived by the Library of Con-

On one hand, the argument is that if migrants didn't cross the border illegally and try to veade Border Patrol agents, they wouldn't risk dying in the desert. "No one wants anybody to die," Border Patrol Agent Jesus Vasavilbaso said as he sat next to a trail in the Baboquivari Moun-tains where a migrant from Mex-ico died last year. "If we had 100% apprehen-sions, nobedy would die," Vasav-ilbaso said. arcnived by the head, i = 1 gress. Over the last two decades the Border Patrol "monopolized the emergency response to a crisis of their own creation," the Tuc-son-based aid group No More Deaths wrote in a February re-port

policies and practices that cause people to become lost, missing and injured in wilderness terrair in the first place will stop death on the southern border," said the No More Deaths report.

opportunity

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up.



For more brain report.
"For my family".
Damaris, a25-year-old woman from Guatemala, had heard about the dangers of crossing the desert, but a family member was able to loan her the money this summer to make the journey. She decided to take advantage of the opportunity.

cover-ing the immigration and fed-eral courts. He holds a

eral courts. He holds a dual master's degree in journalism and Latin American studies from the University of Ari-zona. Prendergast was named Opinion editor of the Star this fall as his reporting on this project was wrapping



zona Republic. In 2017, he received master's degrees in journalism and Latin American studies from the Uni-versity of Arizona. Devoid has also lived in Nicaragua and is bilingual in English and

ARIZONA DAILY STAF



Joel Mondragon, who traveled from the Mexican state of Jalisco, said he and his family would not risk a surrepitious border crossing. From a shelter in Nogales, Sonora, he added: "They told me about asylum here and I think it's better, more correct, to do things right."

Crisis

From F2 "You have to overcome," she said at a migrant shelter in No-gales, Sonora, in late July. "You make the decision to risk your

own life and you say 'for my family." The Border Patrol had picked the border Fattor had picked up her group the day before, after they walked through the desert for more than a week. She didn't know where they crossed the border, saying "everything looks the came"

the same." As she traveled to the United States, she met a 50-year-old woman from El Salvador who sobbed as she described her or-deal in the desert.

deal in the desert. "We don't know who to trust," she said through tears. Joel Mondragon, a 27-year-old man from the Mexican state of Jalisco, had been in Nogales for nearly two months. He and his family, including young daugh-ters, did not plan to try to cross the border through the desert. "I wouldn't risk it? he said. "They told me about asylum here and I think it's better. more

here and I think it's better correct, to do things right," Mondragon said. Damaris and Mondragon were

among more than 100 migrants and asylum seekers seated at long tables inside the Kino Border Initables inside the Kino Border Ini-tiative shelter in Nogales, Sonora. Many of them erupted in loud applause as asylum seekers took turns with a microphone to call on Biden to let them make their claims at the port of entry a few miles away. They spoke in front of a mural portraying a border version of Leonardo da Vinci's "The Last Supper," with Jesus surrounded by migrant parents and their est any of applause turp

Supper," with Jesus surrounded by migrant parents and their children. The windows behind Jesus in the mural showed the wilderness and mountains of Southern Arizona stretching into the distance. That wilderness covers the equivalent of Massachusetts, New Jersey, Connecticut, Del-aware and Rhode Island com-bind. It includes basch down

bined. It includes harsh desert steep mountain ranges, and vast areas with few towns and roads.

Crossing the wilderness

Crossing the wilderness From a car the Altar Valley files by on Arizona 286, which con-nects Three Points and Sasabe southwest of Tucson. On foot, the 45-minute drive turns into days of walking across rough terrain rutted with ravines. Walking is even more treach-erous on the trails that run along ridges in the nearby Baboquivari Mountains, which Customs and Border Protection officials in Ar-

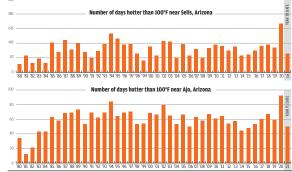
Border Protection officials in Ar izona say have become one of the

izona say have become one of the main thoroughfares for migrants crossing the border. The area also has long been one of the deadliest for migrants, medical examiner numbers shows. The remains of nearly 1,400 migrants were found since 2000 in the corridor on the west side of the Baboquivari Moun-tains on the Tohono O'odham Nation reservation, including more than 140 since January more than 140 since January 2020.

On the east side of the moun On the east side of the moun-tains, the remains of about 550 migrants were found in the Altar Valley since 2000, including at least 35 since January 2020. The trek is made more difficult by the fact that many migrants already walked for days on the

More 100-degree days in desert west of Tucson

of the Medical Examiner. Heat is the leading cause of death for migrants in Southern Arizona, according to the Pima County Office of Summer 2020 saw a spike in 100-degree days near Sells and Ajo, which corresponded with a record-setting



Mexico side of the border, as a couple from the Mexican state of Oaxaca did last December.

They sat glumly on a stone next to a dirt road in the mountains a few miles north of the border. They had been walking for four

They had been walking for four days and couldn't continue, they said. They tried to call for help, but they couldn't get cell re-ception and decided to wait for someone to come by. As Border Patrol Agent Jesus Vasavilbaso questioned them, they emptied crackers and vi-tamin water from their back-packs and showed him the street clothes they wore under camou-flage anats and lackets. Minutes flage pants and jackets. Minutes

flage pants and jackets. Minutes later, they got into the back of a Border Patrol truck. From there, they likely were expelled to Mex-ico, left to decide whether to give up or try to cross the border again. Had the couple from Oaxaca continued their journey, they might have met the same fate as Jovita Garcia Ortiz, a woman from Hidalgo, Mexico, who died near the northern edge of the near the northern edge of the Baboquivari Mountains.

Garcia was traveling with a group of migrants, but she fell behind in early August 2020.

behind in early August 2020. Her fate was unknown for more than a month. On Sept. 11, 2020, a Border Patrol Search, Trauma and Rescue (Borstar) agent called the Sheriff's Department to say they were tracking a group of migrants near the Border Patrol checkpoint on Arizona 86, not far from the northern edge of the Bobcomizari Mountains. A the Baboquivari Mountains. A Border Patrol dog led the agents

Border Patrol dog led the agents to Garcia, who appeared to have died several weeks earlier. The Pima County sheriff's deputy who went to the scene re-membered an Aug. 15 report from No More Deaths volunteers, who relayed a call from Garcia's fam-ily. Another migrant in the group had called the family to let them mour Garcia bad fellem behind. know Garcia had fallen behind. At the time, deputies believed

At the time, deputies believed Garcia's last known location was on the Tohono O'odham reserva-tion. A deputy alerted the Tohono O'odham Nation Police Depart-ment and the Border Patrol, but if turned out that Garcia was not on the reservation. The phone she carried with her showed missed calls and text messages sent days earlier.

Like Garcia, about half the migrants whose remains w found in Southern Arizona were from Mexico. Another 12% were from Central American countries such as Guatemala. The medical examiner could not determine the nationalities of 37% of the found

Remains. Remains are far more likely to belong to men, accounting for nearly 3,100 remains where gen-der could be determined, com-pared with about 500 belonging men.

In terms of age, about 1,600 were between 18 and 39 years old and about 460 were in their 40s or 50s. About 100 were under 18 years old. The ages of about 1,500 could not be determined.

Shaky correlation A sharp increase in border crossings since the winter when Biden took office dominated news coverage and political rhetoric about the border, which might make it tempting to point to the rise in crossings as the obvious explanation for more deaths in the desert.

the desert. But a rise in crossings doesn't fully explain a rise in deaths, the Star found by comparing Border Patrol statistics on encounters with migrants, which generally are used as an indicator of overall crossings, and medical examin-ers' data from Arizona's border counties.

ers' data from Arizona's border counties. Meents in Arizona reported more than three times as many encounters with migrants in 0201 than they did in 2020, but the number of remains found in those years stayed on the same record-breaking, but consistent, hose, vaers trayed to the same record-breaking, but consistent, ace. Agents reported 74,800 concumters last year and about 05,000 through September of this fiscal year. Medical examin-sats year and 222 from January to September this year. Morizona reported similar totals for a smaller scale, agents in for encounters in June and July. Ut the number of remains yas dramatically different. Agents pure and 32,800 in July. But the themains of 52 migrants were found in June, more than twice the 25 found in July. In fact, Border Patrol appre-hensions plummeted by roughly

Limitations on data analysis

The Star's analysis of migrant deaths and scue efforts was limited by a number of factors:

 The exact number of migrant deaths is unknown. The Pima County Medical
 Examiner's count is the most compre-hensive, but it is limited to remains that were found. Ev-ery month, remains are found that be-longed to migrants longed to migrants who died months or

years earlier. years earlier. With deaths that are known, Border Patrol releases little data on migrant deaths, searches, and rescues. Offi-cials did not provide much of the data re-quested by the Star. Border Patrol's defi-nition of a rescue is parrow and doesn't nition of a rescue is narrow and doesn't track the percent-age of 911 calls that responding to the call. The Border Pa-trol did not provide information in re-sponse to a records request from the Star about the use of rescue beacons in the Tucson Sector, the percentage of the percentage of 911 calls agents re-spond to, and other spond to, and other rescue data. With-out knowing that information, the public has no way of knowing whether rescue practices are effective.

90% over the past two decades, while the number of remains found in Southern Arizona grew

nearly tenfold. Apprehensions in Arizona

dropped from 725,000 in 2000 to 74,800 in 2020, while the number of remains grew from about 25 in 1999 to 239 in 2020.

Deaths occur throughout the

Deaths occur throughout the year and across thousands of square miles, but they are most frequent during the heat of sum-mer and in the desert west of Tucson, the Star's geographical analysis of migrant caths shows. Two important trends emerged in the Star's analysis: Summers are growing hotter in Southern Arizona and migrants are taking longer, more dangerous routes through the desert. A third trend, the quick ex-pulsions of migrants to Mecico during the pandemic under the public health order known as Title 42, may have allowed migrants to make repeated crossing attempts just hours or days after making

make repeated crossing attempts just hours or days after making grueling treks through the des-ert. While Border Patrol statis-tics show Tille 42 expulsions were the norm in the Tucson Sector in 2021, no data is available on how many of the migrants who diel had been expelled. More than 3,200 migrants died from encourse to the alements or

from exposure to the elements or their bodies were too decomposed for the medical examiner to de-

for the medical examiner to de-termine a cause of death. The months from May to September accounted for 60% of remains found. For the roughly 1,400 sets of remains found within a week after death, more than 1,000 were found in the summer. The risk for migrants is wors-ening as the deadly summer months in Southern Arizona grow hotter. Last year was the second-hottest year on record, as well as the driest, according to the National Oceanic and Atmo-

Longer, more perilous routes

> The Pima County Sheriff's Departsheriff's Depart-ment does not distinguish between rescues of migrants and rescues of hik-ers and others.

ers and others. Many migrants died while crossing the border through the Tohono O'odham Nation. The Star obtained incident reports from the To-hono O'odham Na-tion Police Depart-ment but Tohono ment. but Tohono O'odham officials declined, through a spokesman, to speak with the Star about migrant deaths.

as well as the driest, according to the National Oceanic and Atmo-spheric Administration. Seven of the 10 hottest years on record were in the past decade. In the cold winter months, migrants sometimes die of hy-pothermia, including about 60 since 2000.

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Suyapa Chacón shows a scar from a machete attack suffered in her home country of Honduras. The guide who smuggled her group into the United States promised a desert trek of no more than three days, but "it took us eight, nine days," she said. She and her 11-year-old son were caught and sent back to Mexico.

Crisis From F3

Migrant deaths from vio Migrant deaths from violence have become rarer in Southern Arizona over the past decade. Fewer than 3% of all migrant deaths, or about 120, were the result of violence, such as gun-shot wounds or stabilings. About 220 deaths were linked to vehicle wrecks.

A woman named Esthela dis appeared in 2006 while crossing the border in Arizona "search the border in Arizona "search-ing for the American dream," according to a video testimonial her sister Nadia provided in 2018 to the Colibri Center for Human Rights, a nonprofit in Tucson that helps identify migrants' re-mains and their families to find closure mains and com-closure. "She wanted to give her son a Choro, School, clothes,

"She wanted to give her son a better future. School, clothes, food, everything that was very difficult, and is still difficult, to get in Mexico," Nadia said. "She was an ambitious woman. She didn't want to settle for how things were. She wanted to fight for more"

things were. She wanted to fight for more." "I don't know exactly how far Esthela walked. They think it was three days and that those days were very difficult for her, that it was terribly hot and per haps Esthela wasn't in the best health to walk." Nadia said. "I more that Esthela had to

"I imagine that Esthela had to have suffered from thirst," Nadia said as her voice choked up and she wiped tears from her eyes. "Sometimes I think about that and it, that idea, thinking about that, that Esthela died thirsty. It tortures me, it hurts me." "Esthela had to have been aware that she wasn't going to survive," Nadia said. "How must my sister have felt in those moments?" "I often tell my nephew "I imagine that Esthela had to

have felt in those moments?" "I often tell my nephew Emiliano, it ell bim, 'Your mom gave herlike for you, because she loved you' And i think, if my sis-ter lost herlike crossing the bor-der if's so that her son could be successful man and could have a chance." "We didn't come here to do bad things. We came because we want our kids to get a head, for school, because there are more opportunities here to work,' Na-dia said. "And, I don't know, I think that

dia said. "And, I don't know, I think that telling my sister's story can help so that someone analyzes that, that perhaps there are laws that are too unjust and aren't giving people a chance."

Already exhausted upon reaching US

The journey across the border in Southern Arizona has grown longer and more dangerous over the last three decades, the Star's

the last three decades, the Star's analysis of all migrant deaths on record in the state shows. The trend is clear: Since 1990, the remains of migrants have been found in increasingly remote areas. Today, they are found much farther from roads, cities and towns than they were in the 1990s or 2000s, according to the Star's analysis of medical



Using GPS coordinates, Alvaro Enciso and a handful of volunteers plant crosses marking the spot where migrants have died in the Arizona desert. His hope is that the markers provide families a gathering place where they can grieve

ould make it through the desert

ter for them." She said she didn't know

She said she didn't know where she crossed the border, but recognized the names of several towns in Mexico west of Nogales.

'Funnel effects'

aminer data and OpenStreet Map data, a public geographic database. In 1990, when relatively few

remains of migrants were found, the average distance they were

the average distance they were found from the nearest road was less than one mile. By the late 1990s and 2000s, that distance ranged from two to four miles, spliking to seven miles one year. Since 2010, the average distance from five to eight miles away. The shift away from towns and cities was also apparent, grow-ing from an average of about three miles in 1990 to roughly 11 miles in the late 1990s and between 11 and 15 miles in the 2000s. Since 2010, the average distance ranged from 16 to nearly 2 miles away.

2000s. since 2010, the average distance ranged from 16 to nearly 20 miles away. The Star analysis shows 43% of migrant deaths occurred in nountain ranges. Border Patrol officials say mi-grants who try to evade agents are crossing the border in more numerous, but smaller, groups that require more agents to re-spond. At the same time, large groups of migrant families, un-accompanied children and other asylon is agents away from pathin most often occur. The dangerous routes samg-glers choose to bring migrants cross the border is a key reason for deaths in the desert, Border Patrol Agent Alan Reglaado said. Even before migrants reachts border, they may have walked for days or weeks and already are malnourished when they cross, he said.

mainourished when they cross, he said. "Their bodies just shut down when they go up the mountain," he said. When Suyapa Chacón crossed the border this summer, the guide who smuggled her group across the border said they

'Funnel effects' The increasing remoteness of migrant dealks the Star found in evith the conclusions of a your of the start is years. Border endeaths in Southers Arzona over the past 15 years. Border endeaths in Southers Arzona over the past 15 years. Border endeaths in Southers Arzona over the past 15 years. Border endeaths in Southers Arzona over the past 15 years and the start of the start and the start of the start and the start of the start heat of the start of the start heat of the start of the start start of the start of the start of the start start of the start of the start of the start start of the start of the start of the start of the start start of the start of

get a ride, migrants are walking farther and longer through the desert, said Daniel Martinez, a UA would make it through the desert in three days. "But when it came time, it wasn't three days. It took us eight, nine days," Chacón, a 29-year-old woman from Hon-duras, said in late July after the Border Patrol sent her and her 11-year-old son back to Nogales, Sonora. sociologist who has studied mi-Dotter Jature and Antional States and Antional States and Antional States and Antional States and Antional A

sociologist who has studied mi-gration and migrant deaths since 2005 and co-authored the study. "People today are crossing through some of the most re-mote and desolate areas of the Arizona-Soonor border," Mar-tinez said. The UA researchers described "funnel effects" in which bor-der enforcement policies in the 1990s pushed migrants away from cittes like San Diego and EI Paso to Southern Arizona. From there, bordre enforcement pol-

Has to solution Arizona. From there, border enforcement pol-icies in the early 2000s pushed migrants away from Nogales and other Arizona border cities into

Inigrand severy location to each of the several to be a several to to to several to be a several to be a sever

migrant deaths in Southern Ar-izona." The border security buildup in Southern Arizona was part of a wide-ranging strategy the Border Patrol put in place in the 1900s known as "prevention through deterrence." The idea was to block urban areas and leave dangerous terrain as the only place where migrants could cross the border. If migrants in-stead crossed into busy urban areas, they could quickly blend in, making it harder for agents to spot and arrest them.

Please see CRISIS, Page F5

At one point, we ended up without any food, any water, Our shoes broke underneath and we couldn't walk, we couldn't keep going, but we had to keep battling because we had to get there."

Suyapa Chacón, on her experience crossing the border this summer

Crisis From F4

Federal officials acknowl-edged at the time that the strategy could place migrants in "mortal danger," as a 1994 planning document put it, but m "mortal danger," as a 1994 planning document put it, but the thinking was that the dan-ger would deter migrants from crossing the border. Instead, migrants continued to cross, and thousands died in the wil-derness of Southern Arizona. Over the past two decades, the number of agents in Arizona increased sharply, and a wide array of surveillance technol-ogy and border barriers was in-stalled, including bollard-style fencing in urban areas such as Nogales, Douglas, Naco and Lukeville.

Lukeville. Border Patrol checkpoints Border Patrol checkpoints dot most of the north-south highways in Southern Arizona and ring the Tohono O'odham Nation reservation. In many areas, surveillance towers stand from each other in a long row a few miles north of the border. Agents park in trucks with por-table surveillance equipment and thousands of sensors alert adents when someone nases by. agents when someone passes by agents when someone passes by. Arizona was at the center of former President Donald Trump's plan to build a 30-foot-tall steel wall along the border in 2019 and 2020, accounting for about 225 miles of wall, or roughly half of all the miles of wall built under the Trump ad-ministration. As a candidate, loe Biden said he would not build another foot of border wall. Soon after tak-

of border wall. Soon after tak-ing office as president, Biden stopped wall construction, in-cluding an additional 20 miles of wall planned for Arizona's 370-mile long border with Mex-

Body count is up in unwalled areas

The Star has found statisti-cally significant evidence that walls and pedestrian fencing have contributed to the funnel effect.

The standard of the familie effect. Using data from 2015 to 2020, the Star built two statistical models to examine how border walls and remoteness may im-pact migrant death counts. The Star found cross-border migration corridors that have more of Arizona's unwalled border also typically have more deaths than other corridors in a given year. Also, more deaths end to be found in remote cortend to be found in remote corridors

To run the first model, the Star calculated the border miles Star calculated the border miles by year that were unobstructed by the 30-foot-tall walls built during the Trump administra-tion or the roughly 15-foot-tall pedestrian fencing built during previous administrations. Then the Star calculated the number of border miles in each corridor by year that were unob-structed by these barriers.

Structed by these barriers. Using these two numbers, the Star calculated each corridor's share of Arizona's unwalled border by year. Our first statistical model es-

timates that a 1 percentage point increase in a corridor's share of Arizona's unwalled-border typ-ically increases deaths by about

4%. For example, the migration corridor west of Lukeville cur-rently has the smallest share of Arizona's unwalled border. Nearly all of it is walled off. Ef fectiv ely, its share of Arizona's unwalled border is 0%. Meanwhile, the corridor west

Meanwhile, the corridor west of Nogales, where Sasabe is lo-cated, has nearly 4 miles of Ar-izona's unwalled border, which is about a 3% share of unwalled border across the state. Based on data from 2015 to 2020, our model expects that the corridor west of Nogales would have 14% more deaths in corner they the corridor wast of

year than the corridor west of Lukeville.

The direction of this trend is apparent in the corridor in the eastern portion of the Tohono O'odham Nation reservation, where most deaths are currently

found. In 2015 it had about a 20% share of Arizona's unwalled border. Since the new wall was built under the Trump ad-ministration, the share of the state's unwalled border more than doubled in this corridor on the east side of the Tohono O'odham Nation, to 43%. No ew wall went up on the reser vation.

vation. In 2020, 77 deaths were found in this corridor, or 50% more than in the corridor with the next highest death count. This corridor has been one of the deadlest for migrants since 2000, however, so there are

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Michele Maggiora places flowers on a cross that marks where the remains of a migrant were found near Amado. She volunteers her time with Alvaro Enciso, who says he and his team have put up more than 1,000 crosses over the past eight years.



COURTESY OF THE SANCHEZ FAMILY r Lukeville as he headed to Cesar Sanchez disappeared in the desert near Tucson to work in construction in October 2016

certainly other factors at play in addition to its share of the state's unwalled border. To run the second model, the Star took all the deaths in each corridor and calculated their av-erage distance from the nearest town or city by year. We used this to measure remoteness. The model identified this tenned to model identified this trend: As distance from cities and towns increases, deaths counts in a

corridor tend to increase, too. The Star's models show that, The Star's models show that, from year to year, more deaths are typically found in corridors that aren't engineered to slow migrants on foot with walls, and more deaths are typically found in areas where migrants die more remotely. While these models help us see statistically significant pat-terns in the data at hand, they don't establish cause and effect. Federal officials would need to

don't establish cause and effect. Federal officials would need to make much more data available for researchers to build a highly predictive model that might an-ticipate where migrants will die.

Repeat crossings follow expulsions

expulsions The vast majority of encoun-ters with migrants in the Border Patrol's Tucson Sector result in upick expulsions to Mexico un-der the pandemic-related pub-lic health order known as Title 42. The Trump administration started using Title 42 in March 2020 and the Biden administra-tion continues to use it. The Border Patrol reported about 159,000 expulsions in the Tucson Sector in fiscal 2021 and about 35,000 migrants pro-cessed under immigration laws.

and maybe to a family here," Enciso said

ciso said. One of the crosses now stands in a meadow a quarter-mile from a dirt road east of Amado, After planting the cross, En-ciso repeated a simple ceremony he and his companions had per-formed hundreds of times. Peter Lucco, a fellow vol-unter, hung a plastic rosary around the top of the cross and sprinkled the cross with water from a white plastic bottle, a nod to the Catholic faith of many mi-grants from Mexico and other

to the Catholic faith of many mi-grants from Mexico and other Latin American countries. As the gray clouds of a mon-soon storm approached over the mountains to the west and the first raindrops started to patter onto the leaves of nearby trees, the group paused in reverence. Enciso pulled a worn notebook from his pocket and read aloud the name of the man who died at hat snot! thuan Carrillo Gomez. that spot: Juan Carrillo Gomez

55 years old. The crosses and ceremony mark a spot where a family can grieve. Countless other families of migrants who simply disap-peared in the wilderness, their remains never found, are left to struggle to find a sense of clo-

struggle to find a sense of clo-sure. Cesar Sanchez disappeared in the desert near Lukeville as he headed to Tucson for a job in construction in October 2016. "Nobody can tell us what hap-pened," said his daughter, Lili-beth Sanchez Alvarez. Sanchez, 44, left his small town near Mazatlan, Sinaloa, on Mexico's west coast, hoping to find a better way to support his family. He had orked as a police officer years before, but gave ti p after he was threatened too many times. He started working as, a carpenter and mason.

town on the Mexico side of the border about 150 miles southwest of Tucson, with the guide who had smuggled several of his family members across the bor-

taming includers across the bor-der two years earlier. He called his daughter to say that he was getting ready to cross and he would call her in 10 days, Alvarez said. That call never came.

Alvarez called a family mem-ber, who had spoken to Sanchez during his trek. Sanchez had during his trek. Sanchez had said he was getting tred in the desert. He knew there was a 'button'' he could puch to call for help, Alvarez said, likely referencing the button on res-cue beacons the Border Patrol places in the desert. But she didn't know if he ever made it to the beacon. His family doesn't know if he is alive or dead, just that "he's not here anymore," she said. But they are becoming resigned to the idea they may never see

to the idea they may never see

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Martinez said, referring to the period when migrants often were sent to Mexico in what were

where sent to meetic in what were known as voluntary returns. "A lot of people are stuck at the border with very few options other than to try to cross again," he said.

Planting crosses The monsoon rains left the hills near Amado covered in greenery dotted with blue, yel-low and orange flowers in early August.

August. Alvaro Enciso and a handful

Åvaro Enciso and a handful of volunteers trekked out to the desert west of Amado on a Tuss-trekked out to the day morning, one of hundreds of trips Enciso has made in the past eight years to mark where more than 1,000 migrants died. He makes wooden crosses and fits them with a red dot, as seen on the Humane Borders online map of migrant deaths, and an item left by migrants in the desert, such as the metal top to a jar. Guided by GPS coordinates, and and ful of volunteers

he and a handful of volunteers

hauled wet cement in a bucket down a dirt road and into the

act point where someone's life, plans and dreams ended there. And that death caused a lot of repercussions and ramifications to a family south of the border,

meadow. He puts crosses at the "

Title 42 is relatively new and Title 42 is relatively new and needs more research, but it would be unvise to discount its effect on the increase in migrant deaths in Southern Arizona, the UA's Martinez said. Title 42 expulsions are lead-ing people "to engage in repeat crossing attempts that we hav-en" seen since the early 2000s," Martine 24 discretize to the

as a carpenter and mason. He waited in Sonoyta, a small

him again

'It's very hard to live with that idea," his daughter said.