CRS Report for Congress

Border Security: Barriers Along the U.S. International Border

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Blas Nuñez-Neto
Analyst in Domestic Security
Domestic Social Policy Division

Stephen Viña
Legislative Attorney
American Law Division
Summary

Congress has repeatedly shown interest in examining and expanding the barriers being deployed along the U.S. international land border. The 109th Congress passed a number of laws affecting these barriers, and oversight of these laws and of the construction process may be of interest to the 110th Congress. The United States Border Patrol (USBP) deploys fencing, which aims to impede the illegal entry of individuals, and vehicle barriers, which aim to impede the illegal entry of vehicles (but not individuals) along the border. The USBP first began erecting barriers in 1990 to deter illegal entries and drug smuggling in its San Diego sector. The ensuing 14 mile-long San Diego “primary fence” formed part of the USBP’s “Prevention Through Deterrence” strategy, which called for reducing unauthorized migration by placing agents and resources directly on the border along population centers in order to deter would-be migrants from entering the country. In 1996, Congress passed the Illegal Immigration Reform and Immigrant Responsibility Act which, among other things, explicitly gave the Attorney General (now the Secretary of the Department of Homeland Security) broad authority to construct barriers along the border and authorized the construction of a secondary layer of fencing to buttress the completed 14 mile primary fence. Construction of the secondary fence stalled due to environmental concerns raised by the California Coastal Commission. In 2005, Congress passed the REAL ID Act that authorized the Secretary of the Department of Homeland Security (DHS) to waive all legal requirements in order to expedite the construction of border barriers. DHS has since announced it will use this waiver authority to complete the San Diego fence. The Secure Fence Act of 2006 directed DHS to construct 850 miles of additional border fencing.

While the San Diego fence, combined with an increase in agents and other resources in the USBP’s San Diego sector, has proven effective in reducing the number of apprehensions made in that sector, there is considerable evidence that the flow of illegal immigration has adapted to this enforcement posture and has shifted to the more remote areas of the Arizona desert. Nationally, the USBP made 1.2 million apprehensions in 1992 and again in 2004, suggesting that the increased enforcement in San Diego sector has had little impact on overall apprehensions.

In addition to border fencing, the USBP deploys both permanent and temporary vehicle barriers to the border. Temporary vehicle barriers are typically chained together and can be moved to different locations at the USBP’s discretion. Permanent vehicle barriers are embedded in the ground and are meant to remain in one location. The USBP is currently erecting a 150 mile stretch of vehicle barriers, in conjunction with the National Park Service, near Yuma, Arizona.

A number of policy issues concerning border barriers generally and fencing specifically may be of interest to Congress, including, but not limited, to their effectiveness, costs versus benefits, location, design, environmental impact, potential diplomatic ramifications, and the costs of acquiring the land needed for construction.

This report will be updated periodically as needed.
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Border Security: Barriers Along the U.S. International Border

Background

Within the Department of Homeland Security’s (DHS) Customs and Border Protection (CBP), the U.S. Border Patrol (USBP) is charged with securing our nation’s land and maritime borders between official ports of entry (POE) to deter and interdict terrorists, weapons of mass destruction, and aliens attempting to enter the country unlawfully. In order to discharge its duties, the USBP deploys personnel, technology, and tactical infrastructure such as vehicle barriers and fencing. Fencing is erected on the border to impede the illegal entry of unauthorized aliens, while vehicle barriers are designed to impede the entry of vehicles but do not impede the entry of individuals. This report will analyze the barriers that are currently being constructed and maintained along the border by the USBP, including historical and future cost estimates and the policy issues involved. Because the current debate has largely focused on the deployment of fencing to the border, this report will focus on the policy issues surrounding the construction of border fencing. However, information concerning the kinds of vehicle barriers being deployed at the border will be provided where available.

Using the broad powers granted to the Attorney General (AG) to control and guard the U.S. border,1 the USBP began erecting a barrier known as the “primary fence” directly on the border in 1990 to deter illegal entries and drug smuggling in its San Diego sector.2 The San Diego fence formed part of the USBP’s “Prevention Through Deterrence” strategy,3 which called for reducing unauthorized migration by placing agents and resources directly on the border along population centers in order to deter would-be migrants from entering the country. The San Diego primary fence was completed in 1993, covering the first 14 miles of the border from the Pacific Ocean. The fence was constructed of 10-foot-high welded steel army surplus landing

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1 8 U.S.C. §1103 (a)(5). Although the law still cites to the Attorney General, the authorities granted by this section now appear to rest with the Secretary of DHS. See The Homeland Security Act of 2002, P.L. 104-208, §§102(a), 441, 1512(d) and 1517 (references to the Attorney General or Commissioner in statute and regulations are deemed to refer to the Secretary of DHS).


mats\textsuperscript{4} with the assistance of the Corps of Engineers and the California National Guard. In addition to the 14 miles of primary fencing erected in its San Diego sector, the USBP maintains stretches of primary fencing in several other sectors along the southwest border, including Yuma, Tucson, El Centro, and El Paso.

In 1996, Congress passed the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA), which, among other things, explicitly gave the Attorney General broad authority to construct barriers along the border and authorized the Immigration and Naturalization Service (INS) to construct a secondary layer of fencing to buttress the completed 14 mile primary fence.\textsuperscript{5} Construction of the secondary fence stalled after 9.5 miles had been completed due to environmental concerns raised by the California Coastal Commission (CCC). In 2005, Congress passed the REAL ID Act, which, among other things, authorized the Secretary of the Department of Homeland Security (DHS) to waive all legal requirements to expedite the construction of border barriers.\textsuperscript{6} In 2006, Congress passed the Secure Fence Act, which, among other things, directs DHS to construct five separate stretches of fencing along the southern border totaling 850 miles.\textsuperscript{7}

In addition to border fencing, the USBP deploys both permanent and temporary vehicle barriers at the border. Vehicle barriers are meant to stop the entry of vehicles, but not people, into the United States. Temporary vehicle barriers are typically chained together and can be moved to different locations at the USBP’s discretion. Permanent vehicle barriers are embedded in the ground and are meant to remain in one location. The USBP is currently erecting a 150 mile stretch of vehicle barriers in conjunction with the National Park Service near Yuma, Arizona.

The San Diego Border Primary Fence

The USBP’s San Diego sector extends along the first 66 miles from the Pacific Ocean of the international border with Mexico, and covers approximately 7,000 square miles of territory. Located north of Tijuana and Tecate, Mexican cities with a combined population of more than two million people, the sector features no natural barriers to entry by unauthorized migrants and smugglers.\textsuperscript{8} As a result of this geographical reality and in response to the large numbers of unauthorized aliens crossing the border in the area, in 1990 the USBP began erecting a physical barrier to deter illegal entries and drug smuggling. The ensuing “primary” fence covered the


\textsuperscript{5} See P.L. 104-208, Div. C. IIRIRA was passed as part of the Omnibus Consolidated Appropriations Act of 1997.

\textsuperscript{6} P.L. 109-13.

\textsuperscript{7} From CBP Congressional Affairs, Sept. 25, 2006.

first 14 miles of the border, starting from the Pacific Ocean, and was constructed of 10-foot-high welded steel.\textsuperscript{9}

**Operation Gatekeeper**

The primary fence, by itself, did not have a discernible impact on the influx of unauthorized aliens coming across the border in San Diego. As a result of this, Operation Gatekeeper was officially announced in the San Diego sector on October 1, 1994. The chief elements of the operation were large increases in the overall manpower of the sector, and the deployment of USBP personnel directly along the border to deter illegal entry. The strategic plan called for three tiers of agent deployment. The first tier of agents was deployed to fixed positions on the border. The agents in this first tier were charged with preventing illegal entry, apprehending those who attempted to enter, and generally observing the border. A second tier of agents was deployed north of the border in the corridors that were heavily used by illegal aliens. The second tier of agents had more freedom of movement than the first tier and were charged with containing and apprehending those aliens who made it past the first tier. The third tier of agents were typically assigned to man vehicle checkpoints further inland to apprehend the traffic that eluded the first two tiers. As the Department of Justice Inspector General report notes, “given Gatekeeper’s deterrence emphasis, many agents were assigned to first-tier, fixed positions along the border. These agents were instructed to remain in their assigned positions rather than chase alien traffic passing through adjacent areas. Prior to Gatekeeper, such stationary positions were relatively rare.”\textsuperscript{10}

Operation Gatekeeper resulted in significant increases in the manpower and other resources deployed to San Diego sector. Agents received additional night vision goggles, portable radios, and four-wheel drive vehicles, and light towers and seismic sensors were deployed.\textsuperscript{11} According to the former INS, between October 1994 and June of 1998, San Diego sector saw the following increases in resources:

- USBP agent manpower increased by 150%;
- Seismic sensors deployed increased by 171%;
- Vehicle fleet increased by 152%.
- Infrared night-vision goggles increased from 12 to 49;
- Permanent lighting increased from 1 mile to 6 miles, and 100 portable lighting platforms were deployed;
- Helicopter fleet increased from 6 to 10.\textsuperscript{12}

\textsuperscript{9} GAO Report 95-30.
\textsuperscript{11} DOJ-OIG Gatekeeper Report.
As a result of the increase in resources and the new strategy that were the main components of Operation Gatekeeper, the USBP estimated in 1998 that the entire 66 miles of border patrolled by the San Diego sector’s agents could be brought under control in five years.13

Sandia National Laboratory Study

According to CBP, the primary fence, in combination with various USBP enforcement initiatives along the San Diego border region (i.e., Operation Gatekeeper), proved to be successful but fiscally and environmentally costly.14 For example, as unauthorized aliens and smugglers breached the primary fence and attempted to evade detection, USBP agents were often forced to pursue the suspects through environmentally sensitive areas. It soon became apparent to immigration officials and lawmakers that the USBP needed, among other things, a “rigid” enforcement system that could integrate infrastructure (i.e., a multi-tiered fence and roads), manpower, and new technologies to further control the border region.

The concept of a three-tiered fence system was first recommended by a 1993 Sandia Laboratory study commissioned by the former Immigration and Naturalization Service (INS). According to the Sandia study, the use of multiple barriers in urban areas would increase the USBP’s ability to discourage a significant number of illegal border crossers, to detect intruders early and delay them as long as possible, and to channel a reduced number of illegal border crossers to geographic locations where the USBP was better prepared to deal with them.15 The Sandia study further noted that segments of the border could not be controlled at the immediate border due to the ruggedness of the terrain, and recommended the use of highway checkpoints in those areas to contain aliens after they had entered the country illegally.16 The study concluded that aliens attempting to enter the United States from Mexico had shown remarkable resiliency in bypassing or destroying obstacles in their path, including the existing primary fence, and postulated that “[a] three-fence barrier system with vehicle patrol roads between the fences and lights will provide the necessary discouragement.”17

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13 DOJ-OIG Gatekeeper Report.
14 See California Coastal Commission, W 13a Staff Report and Recommendation on Consistency Determination, CD-063-03, October 2003, at 14-16 (stating that construction of the primary fence significantly assisted the USBP’s efforts in deterring smuggling attempts via drive-throughs using automobiles and motorcycles). (Hereafter referred to as CCC Staff Report.)
Original Congressional Border Barrier Legislation

As previously mentioned, the INS constructed the primary fencing in San Diego using the broad authority granted to the AG in order to guard and control the U.S. border by the Immigration and Nationality Act (INA). In 1996, Congress expressly authorized the AG to construct barriers at the border for the first time in the Illegal Immigration Reform and Immigrant Responsibility Act (IIRIRA).

Section 102 of IIRIRA — Improvement of Barriers at the Border

Section 102 of IIRIRA concerned the improvement and construction of barriers at our international borders. Section 102(a) appeared to give the AG broad authority to install additional physical barriers and roads “in the vicinity of the United States border to deter illegal crossings in areas of high illegal entry into the United States.” The phrase *vicinity of the United States border* is not defined in the Immigration and Nationality Act (8 U.S.C. §1101 et seq.) or in immigration regulations. The section also did not stipulate what specific characteristics would designate an area as one of *high illegal entry*.

Section 102(b) mandated that the AG construct a barrier in the border area near San Diego. Specifically, §102(b) directed the AG to construct a three-tiered barrier along the 14 miles of the international land border of the U.S., starting at the Pacific Ocean and extending eastward. Section 102(b) ensured that the AG will build a barrier, pursuant to his broader authority in §102(a), near the San Diego area, although there is some debate concerning whether IIRIRA required *continuous* triple fencing and roads for the entire 14-mile corridor. Section 102(b) also provided authority for the acquisition of necessary easements, required certain safety features be incorporated into the design of the fence, and authorized a total appropriation not to exceed $12 million to carry out the section.

Section 102(c) waived the Endangered Species Act (ESA) of 1973 (16 U.S.C. §§1531 et seq.) and the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. §§4321 et seq.), to the extent the AG determined necessary, in order to ensure expeditious construction of the barriers authorized to be constructed under §102. The waiver authority in this provision appeared to apply both to barriers that may be constructed *in the vicinity of the border* and to the barrier that was to be constructed

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19 P.L. 104-208, §102.
20 Although the law still cites to the Attorney General, the authorities granted by this section now appear to rest with the Secretary of DHS. See The Homeland Security Act of 2002, P.L. 104-208, §§102(a), 441, 1512(d) and 1517 (references to the Attorney General or Commissioner in statute and regulations are deemed to refer to the Secretary).
21 See CCC, *Staff Report*, at 7 nt. 2 and p. 23 nt. 4.
22 The actual costs associated with constructing the San Diego fence have been considerably greater than anticipated by IIRIRA and will be discussed in more detail later in this report.
near the San Diego area. The INS (and CBP after 2003) never exercised this original waiver authority, instead choosing to comply with the NEPA and the ESA. The INS published a Final Environmental Impact Study pursuant to NEPA and received a non-jeopardy Biological Opinion from the U.S. Fish and Wildlife Service under the ESA. 23 This waiver authority was expanded in the 109th Congress by the REAL ID Act, which will be discussed in greater detail subsequently, and DHS has subsequently announced it will be implementing this expanded waiver authority.

Section 102(d) also provides the AG with various land acquisition authorities. In 2002, Congress amended the U.S. Code to authorize the AG to use INS funds to purchase land for enforcement fences and to construct the fences. 24

The San Diego Sandia Fence

In 1996, construction began on the secondary fence that had been recommended by the Sandia study with congressional approval. The new fence was to parallel the fourteen miles of primary fence already constructed on land patrolled by the Imperial Beach Station of the San Diego sector, and included permanent lighting as well as an access road in between the two layers of fencing. Of the 14 miles of fencing authorized to be constructed by IIRIRA, nine miles of the triple fence had been completed by the end of FY2005. Two sections, including the final three mile stretch of fence that leads to the Pacific Ocean, have not been finished.

The California Coastal Commission

In order to finish the fence, the USBP proposed to fill a deep canyon known as “Smuggler’s Gulch” with over two million cubic yards of dirt. The triple-fence would then be extended across the filled gulch. California’s Coastal Commission (CCC), however, objected to and essentially halted the completion of the fence in February 2004, because it determined that CBP had not demonstrated, among other things, that the project was consistent “to the maximum extent practicable” with the policies of the California Coastal Management Program — a state program approved under the federal Coastal Zone Management Act (CZMA) (16 U.S.C. §§1451-1464). 25 The CZMA requires federal agency activity within or outside the coastal zone that affects any land or water use or natural resource of the coastal zone to be carried out in a manner that is consistent to the maximum extent practicable with the


24 P.L.107-273, §201(a).

25 See CCC, Staff Report, at 5-7. After California’s Coastal Management Plan was approved by the National Oceanic and Atmospheric Administration pursuant to the CZMA in 1977, apparently all federal activities affecting coastal zone resources in California became subject to the CCC’s regulatory purview.
policies of an approved state management program.\textsuperscript{26} If a federal court finds a federal activity to be inconsistent with an approved state program and the Secretary of DHS (Secretary) determines that compliance is unlikely to be achieved through mediation, the President may exempt from compliance the activity if the President determines that the activity is in the “paramount interest of the United States.”\textsuperscript{27}

According to the CCC, CBP did not believe that it could make further environmental concessions and still comply with IIRIRA. The CCC held that Congress did not specify a particular design in the IIRIRA, and that CBP failed to present a convincing argument that the less environmentally damaging alternative projects it rejected would have prevented compliance with the IIRIRA. Specifically, the CCC was concerned with the potential for significant adverse effects on (1) the Tijuana River National Estuarine Research and Reserve; (2) state and federally listed threatened and endangered species; (3) lands set aside for protection within California’s Multiple Species Conservation Program; and, (4) other aspects of the environment. In response to the CCC’s findings, Congress expanded the waiver authority in the REAL ID Act, described in more detail below, in order to allow DHS to waive the CZMA, among other things.

The REAL ID Act

In the 109\textsuperscript{th} Congress, H.R. 418, the REAL ID Act of 2005, contained language requiring the Secretary of DHS to waive all laws necessary to ensure expeditious construction of the security barriers. H.R. 418 was passed by the House as a stand-alone piece of legislation, but was also attached as an amendment to House-passed H.R. 1268, the emergency supplemental appropriations bill for FY2005. During conference, language was revised in H.R. 1268 to “authorize,” instead of “require,” the Secretary of DHS to waive all “legal requirements,” instead of “all laws.” The conferees also added a new provision that would make such waiver decisions effective upon publication in the Federal Register. Language was also added granting federal district courts exclusive jurisdiction to review claims alleging that the actions or decisions of the Secretary violate the U.S. Constitution, and allowing district court rulings to be reviewed only by the U.S. Supreme Court. H.R. 1268 was signed into law on May 11, 2005 (P.L. 109-13).\textsuperscript{28}

The waiver authority provided in §102 of the REAL ID Act appears to be a broad grant of authority because, in part, it authorizes the waiver of all legal requirements determined necessary by the Secretary for the expeditious construction of authorized barriers and only allows judicial review for constitutional claims.\textsuperscript{29}

\textsuperscript{26} 16 U.S.C. §1456(c).
\textsuperscript{27} 16 U.S.C. §1456(c)(1)(B).
\textsuperscript{29} One of the most analogous provisions CRS located appears to be, at least on its face, 43 U.S.C. §1652(c), which authorizes the waiver of all procedural requirements in law related (continued...)
Furthermore, these claims can only be appealed to the Supreme Court (i.e., there is no intermediate appellate review), whose review is discretionary. Moreover, because §102 of the REAL ID Act amends only the waiver provision of §102 of IIRIRA, the new waiver authority appears to apply to all the barriers that may be constructed under IIRIRA — that is, both to barriers constructed in the vicinity of the border in areas of high illegal entry and to the barrier that is to be constructed near the San Diego area.

Many are concerned with the apparent breadth of the waiver provision and limited judicial review. As passed into law, the REAL ID Act waiver provision begins with the arguably ambiguous “notwithstanding any other law” phrase and allows the waiver of all “legal requirements.” Although the term “legal requirement” is not defined, it cannot grant the Secretary the authority to unilaterally waive a person’s constitutional rights. The provision, however, has been construed by Secretary Chertoff to permit him to waive laws in their entirety. Congress commonly waives preexisting laws, but the new waiver provision used language and a combination of terms not typically seen in law. Most waiver provisions have qualifying language that (1) exempt an action from other requirements contained in the act that authorizes the action, (2) specifically delineate the laws to be waived, or (3) waive a grouping of similar laws. Also common are waiver provisions that contain reporting requirements or restrictions which appear to limit their breadth.

One analogous law appears to be 43 U.S.C. §1652(c), which authorizes the Secretary of the Interior to waive all procedural requirements in law related to the construction of the Trans-Alaska pipeline and limits judicial review to constitutional claims (see below).

Although some argue that the waiver authority can extend to any law, including those seemingly unrelated to building a fence (e.g., civil rights or child labor laws), the provision is tempered by the requirement that the Secretary must determine the

29 (...continued)

to the construction of the Trans-Alaska pipeline and limits judicial review to constitutional claims.

30 Some courts, for instance, have found the “notwithstanding” phrase not dispositive in determining the preemptive effect of a statute. See, e.g., *E.P. Paup v. Director*, OWCP, 999 F.2d 1341, 1348 (9th Cir. 1993); *Oregon Natural Resources Council v. Thomas*, 92 F.3d 792, 796 (9th Cir. 1996). But see *Puerto Rico v. M/V Emily S.*, 132 F.3d 818 (1st Cir. 1997); *Schneider v. United States*, 27 F.3d 1327 (8th Cir. 1994).

31 “[T]he Constitution is filled with provisions that grant Congress or the States specific power to legislate in certain areas,” Justice Black wrote for the Court, but “these granted powers are always subject to the limitations that they may not be exercised in a way that violates other specific provisions of the Constitution.” *Williams v. Rhodes*, 393 U.S. 23, 29 (1968).

law (subject to the waiver) is necessary “to ensure expeditious construction” of the barriers. In other words, the Secretary may be confined to laws that, in effect, will impede the construction of the fence — not those that only tangentially relate to or do not necessarily interfere with construction. For example, because child labor laws would not prevent the Secretary from expeditiously constructing the fence, it follows that the Secretary does not have the authority to waive these protections. This interpretation is buttressed by the legislative history where several Members called for the waiver provision because of laws that were complicating and ultimately preventing the completion of the fence.\footnote{33} The decision to waive a law, nonetheless, is solely in the Secretary’s discretion. Until such time that DHS waives an applicable law, however, it must follow all legal requirements normally imposed on federal agencies.

**Current Status of the San Diego Triple Fence**

On September 14, 2005, DHS announced it was applying its new waiver authority to complete the San Diego fence.\footnote{34} The military has now begun the process of upgrading and rebuilding the San Diego border fence. Congress appropriated $31 million in FY2007 for construction of the remaining 4.5 miles of the San Diego fence.\footnote{35} DHS has begun construction on the final 4.5 miles of the San Diego fence, beginning the process of filling in the area known as Smuggler’s Gulch.\footnote{36}

**The San Diego Fence and USBP Apprehensions**

Apprehension statistics have long been used as a performance measure by the USBP. However, the number of apprehensions may be a misleading statistic for several reasons, including the data’s focus on events rather than people\footnote{37} and the fact that there are no reliable estimates for how many aliens successfully evade capture. This makes it difficult to establish a firm correlation between the number of apprehensions in a given sector and the number of people attempting to enter through that sector. While caution should be taken when attempting to draw conclusions about the efficacy of policy initiatives based solely on apprehensions statistics, they remain the most reliable way to codify trends in illegal migration along the border.


\footnote{35} H.Rept. 109-699, p. 130.

\footnote{36} Interview with CBP Congressional Affairs, Jan. 26, 2006.

\footnote{37} If the same person is apprehended multiple times attempting to enter the country in one year, each apprehension will be counted separately by the USBP in generating their apprehension statistics. This means that apprehension statistics may overstate the number of aliens apprehended each year.
The San Diego fence spans two border patrol stations within the San Diego sector: Imperial Beach station and Chula Vista station. As previously noted, the primary fence was constructed in those two stations beginning in FY1990; the secondary fence was constructed beginning in FY1996. Figure 1 shows the stark decrease in apprehensions at the Imperial Beach station from FY1992 to FY2004. The majority of the decrease occurred in the four year period from FY1995 through FY1998 and coincided with Operation Gatekeeper, which as previously noted combined the construction of fencing along the border with an increase in agents and other resources deployed directly along the border. For the period from FY1998 to FY2004, apprehensions at the Imperial Beach station averaged about 14,000 each year.

**Figure 1. Imperial Beach Station Apprehensions**

![Graph showing decrease in apprehensions from FY1992 to FY2004](image)

**Source:** CRS analysis of CBP data.

Figure 2 shows the apprehensions at the Chula Vista station over the same period of time. The trend in apprehensions at Chula Vista is somewhat similar to Imperial Beach, with overall apprehensions dropping significantly from FY1992 to FY2002. Apprehensions increased slightly from FY2002 to FY2004, but remain far below their early 1990s levels. Interestingly, the rate of decline in Chula Vista in the mid-1990s lagged behind the rate of decline in Imperial Beach station during this period. This suggests that as enforcement ramped up in Imperial Beach station, unauthorized migration shifted westward to Chula Vista. From FY1992 to FY1998, for example, apprehensions decreased by 92% in Imperial Beach, but only by 54% in Chula Vista. From FY1998 through FY2001, apprehensions leveled off in Imperial Beach, averaging around 16,000 a year, but continued to decline at Chula Vista, from
72,648 in FY1998 to 3,080 in FY2002. Overall, the trend indicates the following: as enforcement measures, in this case including fencing, were deployed — first focusing on Imperial Beach, and later extending to Chula Vista — the flow of unauthorized migration pushed eastward. The drop in apprehensions occurred first in Imperial Beach, and then later pushed eastward to Chula Vista.

**Figure 2. Chula Vista Station Apprehensions**

Source: CRS analysis of CBP data.

**Figure 3** shows the aggregate apprehensions made at the other San Diego sector stations, excluding Imperial Beach and Chula Vista. Those stations are El Cajon, Campo, San Clemente, Temecula, and Brown Field. **Figure 3** shows that at the time apprehensions were beginning to decline in Imperial Beach (starting in FY1995) and Chula Vista (starting in FY1996), apprehensions at other San Diego sector stations almost doubled. This suggests that as enforcement efforts increased in the two westernmost stations, including the installation of fencing and the deployment of additional agents, the flow of illegal migration pushed eastward to the other stations in the San Diego sector. While apprehensions declined in the non-fenced stations of the San Diego sector from FY1997 to FY2001, the rate of decline was not as steep as the rate of decline at the stations where fencing was deployed. Overall, the decline in apprehensions in the rest of the San Diego sector has lagged behind the decreases in Imperial Beach and Chula Vista: from FY1992 to FY2004, apprehensions in the other San Diego sector stations decreased by 42%, compared to decreases of 95% in Imperial Beach and 94% in Chula Vista. In FY2003 and FY2004, apprehensions increased slightly in the rest of San Diego sector, possibly in response to the
increasing USBP focus on the Tucson sector in Arizona.\textsuperscript{38} It seems, then, that the installation of border fencing, in combination with an increase in agent manpower and technological assets, has had a significant effect on the apprehensions made in the San Diego sector. This in turn suggests that fewer unauthorized aliens are attempting to cross the border in the San Diego sector as a result of the increased enforcement measures, including fencing, manpower, and other resources, that were deployed to that sector.

**Figure 3. Apprehensions at San Diego Sector Stations, Excluding Imperial Beach and Chula Vista**

\begin{figure}[h]
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\includegraphics[width=\textwidth]{figure3}
\caption{Apprehensions at San Diego Sector Stations, Excluding Imperial Beach and Chula Vista}
\end{figure}

\textbf{Source:} CRS analysis of CBP data.

\textbf{Figure 4} shows overall San Diego sector apprehensions, breaking out the Imperial Beach and Chula Vista stations, and compares them to the apprehensions made at the Tucson sector between FY1992 and FY2004. The data used to create this graph can be seen presented in table form in \textbf{Appendix V}. \textbf{Figure 4} shows that in FY1992, Imperial Beach and Chula Vista accounted for 64\% of all apprehensions made in the San Diego sector; by FY2004 the two stations accounted for only 14\% of all apprehensions made in the sector. However, as apprehensions declined in Imperial Beach and Chula Vista stations and San Diego sector as a whole over the late 1990s and early 2000s, apprehensions in the Tucson sector in Arizona increased significantly over this period. Over the 12-year period between 1992 and 2004, overall apprehensions in the San Diego sector declined by 76\%. However, as

\textsuperscript{38} For more information on overall apprehension trends, please refer to CRS Report RL32562, \textit{Border Security: The Role of the U.S. Border Patrol}, by Blas Nuñez-Neto.
apprehensions were decreasing in the San Diego sector, they were increasing in other sectors further east. This increase was most notable within the Tucson sector in Arizona, where apprehensions increased six-fold (591%) between FY1992 and FY2004. As Figure 4 shows, overall apprehensions in the San Diego and Tucson sectors combined have averaged roughly 620,000 yearly since FY1992, with the San Diego sector accounting for the lion’s share during the early 1990s and the Tucson sector accounting for the majority in the early 2000s. This provides further indication that the construction of the fence, combined with the increases in manpower in the San Diego sector, changed the patterns of migration for unauthorized aliens attempting to enter the country illegally from Mexico.

Figure 4. Apprehensions at San Diego Sector Stations and Tucson Sector

Source: CRS analysis of CBP data.

As Figures 1-4 show, the increased deployment of agents, infrastructure, technology, and other resources within the San Diego sector has resulted in a significant decline in the number of apprehensions made in that sector. Nationally, apprehensions made by the USBP grew steadily through the late 1990s, only to decline in the early 2000s. However, in 1992 the USBP apprehended 1.2 million unauthorized aliens; in 2004, the USBP also apprehended 1.2 million unauthorized
aliens. While the increased enforcement in the San Diego sector has resulted in a shift in migration patterns for unauthorized aliens, it does not appear to have decreased the overall number of apprehensions made each year by USBP agents. As previously noted, apprehensions statistics can be somewhat misleading, but they nevertheless remain the best way to codify trends in unauthorized migration along the border. However, it is impossible to ascertain solely by looking at apprehensions statistics how many unauthorized aliens are attempting to enter the country illegally, because it is unclear how many individuals evade being captured by the USBP each year.

**Border Barrier Construction**

The USBP has been constructing and maintaining barriers along the international land border since 1991. These barriers have historically been limited to selected urban areas as part of the USBP’s overall strategy of rerouting illegal migration away from urban areas towards geographically isolated areas where their agents have a tactical advantage over border crossers. Two main types of border fencing have been constructed: primary fencing located directly on the border along several urban areas; and Sandia fencing, also known as secondary or triple fencing, in San Diego. Additionally, the USBP has begun installing permanent vehicle barriers in various segments of the border. Vehicle barriers are designed to impede the entry of vehicles while allowing individuals and animals to cross the border freely. As such, they have a lower environmental footprint than border fencing.

**Steps Prior to Construction**

Several considerations come into play whenever the USBP contemplates construction along the border. There are a number of steps that must be taken before the construction process can begin. These steps include, but are not limited to, determining what the environmental impact of the construction will be; acquiring the land needed for the fence; acquiring the materials that will be used for the fence; and securing the assistance of the Corps of Engineers and the National Guard for the construction process. The role the Corps of Engineers plays in assisting the USBP with the entire process of constructing border fencing, including acquiring materials, will be discussed subsequently in the construction process section. This section will cover the issues associated with environmental assessments and land acquisition.

**Environmental Impact Assessments.** Land along the southwest border supports a number of animals and plants and provides habitat to many protected species. The U.S. Fish and Wildlife Service, for example, reported that a total of 18 federally protected species have the potential to be found along certain sections of the California border. In Arizona, at least 39 federally endangered, threatened, or

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39 CRS analysis of CBP data.

40 EIS, San Diego Border Fence.
candidate species can be found living along its border. More than 85% of the lands directly along the Arizona border are federal lands, much of it set aside to protect wilderness and wildlife. For example, the Organ Pipe Cactus National Monument, the Cabeza Prieta National Wildlife Refuge, and the Buenos Aires National Wildlife Refuge can all be found adjacent to the border. The southwest border region is considered a fragile environment, susceptible to harm from even the slightest changes to the ecosystem.

Many are concerned with the geographic footprint and subsequent environmental impacts of both illegal immigration and USBP activities. Until the early 1990s, the USBP’s enforcement activities along the border were nominal and the environmental consequences of illegal crossings went largely unnoticed. As illicit trafficking escalated, however, so did the USBP’s activities and enforcement footprint, including the construction of fencing and other barriers. Although the San Diego fence reportedly reduced the number of aliens attempting to drive across the open border (and consequently the enforcement footprint to stop such activities), it did little to block the flow of foot traffic. Illegal aliens often damage habitat by cutting vegetation for shelter and fire, causing wildfires, increasing erosion through repeated use of trails, and discarding trash. Environmentalists claim that the USBP’s enforcement activities, including the pursuit of illegal aliens, use of off-road vehicles and construction of roads and fences, compound the degradation. The REAL ID Act will allow the DHS Secretary to waive any legal requirements needed to expedite the construction of border fencing. Until such time that DHS waives an applicable law, however, it must follow all legal requirements normally imposed on federal agencies, including, for example, NEPA documentary requirements.

Land Acquisition. The construction of a fence along the border necessarily requires the government to acquire some type of interest in the land. The San Diego border fence, for example, is to extend approximately 150-feet north of the international boundary. Current immigration law authorizes the Secretary of DHS to contract for and buy any interest in land adjacent to or in the vicinity of the international land border when the Secretary deems the land essential to control and

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43 EIS, San Diego Border Fence, at 1-10.

44 Id. at 1-11.


guard the border against any violation of immigration law.\textsuperscript{47} It also authorizes the Secretary to accept any interest in land along the border as a gift and to commence condemnation proceedings if a reasonable purchase price can not be agreed upon. With respect to the San Diego border fence, the law requires the Secretary to promptly acquire such easements as necessary to implement the statute.\textsuperscript{48} If DHS exercises its eminent domain powers, it must provide just compensation as required by the Constitution. In the case of the San Diego fence, construction of the final 4.5 miles continues to be held up as DHS acquires the necessary land.

DHS is authorized to acquire new interests in lands under the INA. However, the federal government may already own some land along the border pursuant to presidential proclamations made long ago. In 1907, President Roosevelt reserved from entry and set apart as a public reservation all public lands within 60-feet of the international boundary between the United States and Mexico within the State of California and the Territories of Arizona and New Mexico.\textsuperscript{49} Known as the “Roosevelt Reservation,” this land withdrawal was found “necessary for the public welfare ... as a protection against the smuggling of goods.” The proclamation excepted from the reservation all lands, which, as of its date, were (1) embraced in any legal entry; (2) covered by any lawful filing, selection or rights of way duly recorded in the proper U.S. Land Office; (3) validly settled pursuant to law; or (4) within any withdrawal or reservation for any use or purpose inconsistent with its purposes. A similar reservation was made by President Taft in 1912, for all public lands laying within 60-feet of the boundary line between the United States and Canada.\textsuperscript{50} This proclamation states that the customs and immigration laws of the United States could be better enforced and the public welfare thereby advanced by the retention in the federal government of complete control of the use and occupation of lands abutting the international boundary lines. The proclamation also provides exceptions similar to those described in the Roosevelt Reservation.

**Border Fence Construction Process and Funding**

CBP currently constructs border fencing under a Memorandum of Agreement (MOA) with the ECSO (Engineering and Construction Support Office) of the U.S. Army Corps of Engineers (Corps). ECSO manages several components of the construction process for CBP, including planning and acquisition of real estate;

\textsuperscript{47} 8 U.S.C. §1103(b).

\textsuperscript{48} 8 U.S.C. §1101 note (b)(2).

\textsuperscript{49} 35 Stat. 2136. The reservation also extends sixty-feet from the margin of any river that forms the international boundary. This language, however, does not apply to lands that abut the Rio Grande River in Texas since there are no federal “public lands” in Texas. Title to most of the western territories was obtained by the United States from foreign powers through purchase and treaty. Generally, the terms of acquisition provided for recognition of the few existing private property rights, but granted title over the vast non-private lands to the United States. Texas was an exception; it was admitted by annexation in 1845, and retained title to all its public lands. See United States v. Denver, 656 P.2d 1, 5 n.2 (Co. 1982).

\textsuperscript{50} 37 Stat. 1741.
drafting the environmental protection plan; designing the project and formulating the engineering costs; overseeing the construction process; and enforcing the appropriate warranties. On most of the tactical infrastructure projects, National Guard units and military units from the Department of Defense (DOD) Joint Task Force North provide the labor. DOD uses these projects as part of their training regimen, leveraging their ability to deploy tactical infrastructure and thereby providing zero labor costs to CBP. The funding for land acquisition and fence materials comes out of the CBP construction account within the DHS appropriation. Specific funding for fence construction is rarely identified in the conference reports, though it typically has been identified within the DHS (and previously the former INS) Congressional Budget Justifications. Table 1 shows the overall amount appropriated for the USBP construction account, and the specific amounts identified for tactical infrastructure within that account, since FY1996. Appropriations for fencing and other border barriers has increased markedly over the past five years, from $6 million in FY2002 to $93 million in FY2006.

**Table 1. Border Patrol Tactical Infrastructure Appropriations**

(millions of dollars)

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Construction Account (total)</th>
<th>Tactical Infrastructure Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007 (request)</td>
<td>256</td>
<td>106</td>
</tr>
<tr>
<td>2006</td>
<td>298</td>
<td>93</td>
</tr>
<tr>
<td>2005</td>
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<td>4</td>
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<tr>
<td>1996</td>
<td>25</td>
<td>4</td>
</tr>
</tbody>
</table>

**Sources:** For FY2006-FY2007, the amounts appropriated for construction and tactical infrastructure were identified from the FY2007 DHS Congressional Budget Justifications. For FY2004-FY2005, the amounts appropriated for construction and tactical infrastructure were identified from the FY2006

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52 FY2006 is an exception. Within the conference report, $35 million was identified for the Southwest Border Fence and $35 million was identified for the construction of vehicle barriers and other border infrastructure in Tucson sector. H.Rept. 109-241.
DHS Congressional Budget Justifications. FY2003 construction and tactical infrastructure funding was identified from the FY2005 DHS Congressional Budget Justifications. FY1996-FY2002 tactical infrastructure funding was identified in the FY2003 INS Congressional Budget Justifications; funding for FY1998-FY2000 includes San Diego fencing as well as fencing, light, and road projects in El Centro, Tucson, El Paso, and Marfa. FY2001 and FY2002 construction funding identified from the FY2002 INS Congressional Budget Justifications. FY2000 construction funding identified from the FY2001 INS Congressional Budget Justifications and H.Rept. 107-278. FY1999 construction funding identified from P.L. 105-277. FY1998 construction funding identified from P.L. 105-119. FY1997 funding identified from P.L. 104-208. FY1996 construction funding identified from P.L. 104-134.

**Note:** In FY2003 immigration inspections from the former INS, Customs inspections from the former customs service, and the USBP were merged to form the Bureau of Customs and Border Protection within DHS. As a result of this the data for years prior to FY2003 may not be comparable with the data for FY2004 and after.

Under the current MOA, once CBP purchases the materials and acquires the land, the Corps of Engineers undertakes the engineering studies and provides the manpower and machinery that are used to install the fencing. The actual manpower is typically provided by the State National Guard (the California National Guard, for example, constructed much of the San Diego fence), although occasionally the military, and sometimes the USBP, are involved in the construction. The Corps of Engineers funding comes from the Department of Defense Drug Interdiction and Counter-Drug Activities Account. **Table 2** shows the funding for the “Southwest Border Fence” sub-account within this DOD Account, from FY1997 to FY2006.

### Table 2. DOD Funding for the Southwest Border Fence

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>DOD Funding</th>
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<td>2006</td>
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<tr>
<td>1998</td>
<td>4.0</td>
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<tr>
<td>1997</td>
<td>5.0</td>
</tr>
</tbody>
</table>


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Types of Fences and Barriers

The USBP currently uses three main types of barriers along the border: primary fencing immediately on the international border, Sandia fencing behind the primary fencing, and vehicle barriers meant to stop vehicles, but not people on foot, from traversing the border. While other forms of primary fencing, such as bollard fencing and picket fencing, have been constructed in limited areas, to date the agency has largely focused on using the landing mat fencing as a primary fence and the Sandia fence as a secondary fence.

Landing Mat Fencing. Landing mat fencing is composed of army surplus carbon steel landing mats which were used to create landing strips during the Vietnam War. The landing mats form panels 12 feet long, 20 inches wide, and 1/4 inch thick, which are welded to steel pipes buried 8 feet deep every 6 feet along the fence. Each mile of fencing requires the use of 3,080 panels. There are about 5 miles of surplus landing mat fencing remaining as of 2006. According to the USBP, sites that feature landing mat fencing include the following USBP stations: Campo, CA; Yuma, AZ; Nogales, AZ; Naco, AZ; Douglas, AZ, and El Paso, TX. There are 62 miles of landing mat fencing currently constructed.

In a 1999 study which was commissioned by the INS and performed under a Memorandum of Understanding, the Corps of Engineers predicted that construction costs for the landing mat fencing would range from $388,005 to $431,117 per mile.

Notes:

FY2005 funding for the “Southwest Border Fence” sub-account was not identified in the Conference Report, H.Rept. 108-622. The House Committee had recommended $7 million for this sub-account in H.Rept. 108-553; while the Senate Committee had not recommended any funding for it in S.Rept. 108-284.

54 Bollard fencing is comprised of vertical installations of solid concrete, metal spheres, or large posts, embedded into the ground at small enough intervals as to be impassable. Bollard fencing is difficult to compromise but expensive to install. See Appendix I for a depiction of bollard fencing.

55 Picket fencing is comprised of metal stakes set sufficiently close together as to be impassable. See Appendix I for a depiction of picket fencing.

56 Roughly 13 miles of these alternate forms of fencing have been constructed to date, according to an interview with CBP Congressional Affairs on Sept. 13, 2006.


58 Interview with CBP Congressional Affairs, Sept. 13, 2006.

59 Telephone conversation with CBP, Nov. 30, 2005.

60 Interview with CBP Congressional Affairs, Sept. 13, 2006.

61 The Corps of Engineers used 1997 dollars in their study. For the purposes of this report, the numbers predicted by the Corps were adjusted to 2005 dollars using the Gross Domestic Product (GDP) deflator, available at [http://www1.jsc.nasa.gov/bu2/inflateGDP.html]. This (continued...
This estimate includes the cost of materials, despite the fact that the landing mat fencing constructed to date has been comprised of army-surplus panels acquired by CBP at no cost. As previously noted, however, only about 5 miles of surplus landing mat fencing material remains available. Maintenance costs per year could vary widely depending on the number of breaches the fence undergoes. Low levels of damage to the fence would result in low annual repair costs, while a large number of breaches could result in stretches of fencing needing to be replaced. Per mile, the Corps of Engineers estimated that yearly maintenance costs would probably range from $1,742 to $17,753.62 The Corps of Engineers noted that the net present value63 of the fence after 25 years of operation would range from $5.4 million and $8.3 million per mile depending on the amount of damage sustained by the fencing each year.

**Sandia Secondary Fence.** The secondary fence proposed by the Sandia study has only been constructed over roughly 9.5 miles of the 14 miles in the original plan due to environmental concerns voiced by the California Coastal Commission. As previously discussed, P.L. 109-13 included language that will allow waiver of all legal requirements determined necessary by the Secretary of DHS for the expeditious construction of authorized barriers and only allows judicial review for constitutional claims. On September 14, 2005, DHS announced it is applying its new waiver authority to complete the San Diego fence.64 However, construction has not begun on the remaining four miles of the San Diego fence because DHS is in the process of acquiring the necessary land.65 DHS is currently estimating that it will cost an additional $66 million to finish the San Diego fence, bringing overall costs for this 14 mile-long project to $127 million. Additionally, DHS notes that it will use a mix

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61 (...)continued

website appears to be no longer operating; however, GDP deflator tables are also published by the Bureau of Economic Adjustment (BEA) at the Department of Commerce and are available at [http://bea.gov/bea/dn/nipaweb/TableView.asp?SelectedTable=13&FirstYear =1997&LastYear=2005&Freq=yr]. The actual predictions made by the Corps for constructing and maintaining primary fencing, in 1997 dollars, were $341,584 to $379,538 per mile for construction costs, and $1,534 to $15,629 per mile per year in maintenance costs. The 25-year life-cycle costs for constructing and maintaining landing mat fencing were predicted to range between $4,725,572 and $7,340,098 per mile in 1997 dollars.

62 Corps of Engineers Study, p. 21.

63 Net present value is a term used by the Corps of Engineers in their life cycle costs analyses for construction projects. It amortizes the future costs of a project and shows what the entire costs of the project will be. In this case, these numbers represent 25 year predictions and have been adjusted from 1997 dollars to 2005 dollars using a GDP Deflator

64 DHS published a Federal Register notice on September 22, 2005, declaring the waiver of, in their entirety: (1) the National Environmental Protection Act (42 U.S.C. 4321 et seq.); (2) the Endangered Species Act (16 U.S.C. 1531 et seq.); (3) the Coastal Zone Management Act (16 U.S.C. 1451 et seq.); (4) the Federal Water Pollution Control Act (33 U.S.C. §§1251 et seq.); (5) the National Historic Preservation Act (16 U.S.C. §§470 et seq.); (6) the Migratory Bird Treaty Act (16 U.S.C. §§703 et seq.); (7) the Clean Air Act (42 U.S.C. §§7401 et seq.); and (8) the Administrative Procedure Act (5 U.S.C. §§551 et seq.).

65 Telephone conversation with CBP, November 30, 2005.
The Sandia fence, as it has been constructed in the San Diego sector, is a secondary fence constructed behind the primary fence. Enough space is left between the two fences to accommodate an access road. The secondary fence is an angled two-piece fence. The fence is vertical up to ten feet high, and then extends out at an angle towards the climber. This prevents climbing by using gravity and the weight of the climber against them. The Corps of Engineers estimated that Sandia fencing costs per mile would range from $785,679 to $872,977 for construction and $953 to $7,628 per mile yearly for maintenance. Additionally, the Corps of Engineers study notes that the Sandia fence would possibly need to be replaced in the fifth year of operation and in every fourth year thereafter if man-made damage to the fence was “severe and ongoing.” For this reason, in the study the Corps of Engineers noted that the net present value of the fence after 25 years of operation, per mile, would range from $11.1 million to $61.6 million.\(^\text{67}\)

**Other Border Barriers: Vehicle Barriers**

The USBP utilizes various different types of barriers to impede vehicles from crossing into the United States from Mexico. Some of these barriers are temporary and can be moved to different locations when needed, others are permanent barriers. The main purpose of vehicle barriers is to prevent smugglers from easily driving their vehicles across the border.

**Permanent Vehicle Barriers.** Permanent vehicle barriers, as their name suggests, are not designed to be moved but rather are permanent installations. Permanent vehicle barriers are typically steel posts, or bollards, that are excavated 5 feet deep and inserted into a poured concrete base. The posts alternate in above-ground height in order to dissuade individuals from forming a ramp over the barrier. They are spaced so as to allow foot and animal traffic but not vehicular traffic. The USBP recently began building permanent vehicle barriers in the Yuma sector, with a substantial stretch slated to be built along the Organ Pipe Cactus National Monument. When linked with the 30 miles of vehicle barriers built by the National Park Service, a USBP spokesman reportedly noted that the total 123 mile length of the project “will form the largest continuous physical barrier along the border in the nation.”\(^\text{68}\)

In the FY2007 DHS Congressional Budget Justifications, DHS notes that the Yuma vehicle barrier project would take until at least 2010 (and possibly longer) to

\(^{66}\) DHS FY2007 Justifications, pg. CBP Construction 18.

\(^{67}\) The numbers used by the Corps of Engineers were cited in 1997 dollars. They have been adjusted to 2005 dollars using the GDP deflator cited above. The actual costs per mile in the Corps of Engineers Study were: $691,680 to $768,533 for construction, and $839 to $6,715 for maintenance. Net Present Value after 25 years in 1997 dollars ranged from $9.73 million to $54.23 million. Corps of Engineers Study, pp. 3 and 23.

complete if CBP continued to use the Corps of Engineers and other military personnel to construct the barriers. Instead, CBP proposes hiring commercial contractors to build 39 miles of vehicle barriers in the Yuma sector, or almost half of the project’s 93 mile total.\(^{69}\) CBP is projecting that the project will be completed by FY2011, and that the overall project costs will be $116 million.\(^{70}\) This means that, overall, the project will cost roughly $1.25 million per mile. The National Park Service has spent $11.1 million to construct 18 miles of permanent vehicle barriers in Organ Pipe Cactus National Monument, and has obligated, but not yet spent, an additional $6.6 million in FY2005 funding to complete the remaining 13 miles of the project.\(^{71}\)

DHS currently has roughly 50 miles of vehicle barriers deployed along the border.\(^{72}\) Vehicle barriers have been used in the El Centro, CA, Yuma, AZ, Tucson, AZ, and El Paso, TX sectors.\(^{73}\)

**Temporary Vehicle Barriers.** Temporary vehicle barriers are typically built from welded metal, such as railroad track, but can also be constructed from telephone poles or pipe. These barriers are built so that they cannot be rolled or moved manually; they can only be moved with a forklift or a front-end loader. They are usually built at USBP stations and transported to areas of high vehicle entry, where they are placed and chained together.\(^{74}\) The main advantage of the temporary vehicle barriers is their ability to be redeployed to different areas to address changes in smuggling patterns. The main disadvantage of these barriers is that they are easier to compromise than permanent vehicle barriers.

**Legislation in the 109th Congress**

The 109th Congress enacted three pieces of legislation concerning border fencing. The REAL ID Act (P.L. 109-13), as previously noted, expanded DHS’ waiver authority to expedite the construction of border fencing. The Secure Fence Act of 2006 (P.L. 109-367) directed DHS to construct five stretches of border fencing

\(^{69}\) DHS FY2007 Justifications, pg. CBP Construction-7. CBP project length does not include the 30 miles of vehicle barriers maintained by the National Park Service.

\(^{70}\) DHS FY2007 Justifications, pg. CBP Construction-18. It is unclear why the project is predicted to take less time with contractors, and yet the overall completion date for the construction is predicted to be 2011.

\(^{71}\) From the National Park Service, February 9, 2006. The National Park Service notes that 30 miles of permanent vehicle barriers are being built at the Organ Pipe Cactus National Monument, and one mile is being built in the Coronado National Monument.

\(^{72}\) Email correspondence with CBP Congressional affairs, Dec. 23, 2005.

\(^{73}\) Telephone conversation with CBP, Nov. 30, 2005.

totaling roughly 850 miles.\textsuperscript{75} The FY2007 DHS Appropriations Act (P.L. 109-295) provided $1.2 billion for the installation of fencing, infrastructure, and technology along the border; $31 million of this total was designated for the completion of the San Diego fence.\textsuperscript{76} In addition to these Acts, a number of bills with fencing related provisions were passed by the House and the Senate. H.R. 4437 which would have directed DHS to construct five stretches of fencing along the border, was passed by the House on December 16, 2005. S. 2611, which called for 370 miles of fencing to be constructed, was passed by the Senate on May 25, 2006. S.Amdt. 4788 was added to the Department of Defense Appropriation bill, H.R. 5631, on August 2, 2006, and would have appropriated $1.8 billion to the National Guard for the construction of border fencing. H.R. 5631 was passed by the Senate on September 7, 2006; however, this fencing provision was stripped from the bill during conference.

P.L. 109-295, the FY2007 DHS Appropriations Act, provided $1.2 billion in funding for border fencing, infrastructure, and technology; combined with the supplemental appropriation provided by P.L. 109-234, the conferees noted that DHS would have $1.5 billion for border infrastructure construction in FY2007.\textsuperscript{77} The conferees directed DHS to submit an expenditure plan for this funding within 60 days of the bill’s enactment, and withheld $950 million of the funding until the plan is received and approved by the House and Senate Committees. However, the act did not place any restrictions on how DHS is to apportion this appropriation between fencing, infrastructure, and technology.

P.L. 109-367, the Secure Fence Act, originated in the House as H.R. 6061 and was passed on September 14, 2006. H.R. 6061 was passed by the Senate on September 29, 2006 and signed into law on October 26, 2006. The act directed DHS to construct two-layered reinforced fencing and additional physical barriers, roads, lighting, cameras, and sensors along five stretches of the southwest border. CBP has estimated that these stretches of fencing will total roughly 850 miles\textsuperscript{78} of the southern border. The five stretches of the border that DHS was required to fence were the 20 miles around Tecate, CA; from Calexico, CA to Douglas, AZ; from Columbus, NM to El Paso, TX; from Del Rio, TX to Eagle Pass, TX; and from Laredo, TX to Brownsville, TX. The act designated the roughly 370 mile portion of the fence between Calexico, CA, and Douglas, AZ, a priority area and directed DHS to ensure that “an interlocking surveillance camera system” is installed along this area by May 30, 2007, and that the fence is completed in this area by May 30, 2008. The act also designated a 30-mile stretch around Laredo, TX, as a priority area and directed DHS to complete this fencing by December 31, 2008. This language was similar to that passed earlier by the House in H.R. 4437. The fencing provisions in H.R. 4437 were largely identical to those in H.R. 6061, except that H.R. 4437 featured earlier construction deadlines for the priority areas identified by one year for the Calexico,
CA, to Douglas, AZ, stretch of fencing and by two years for the 30-mile stretch around Laredo, TX.

In addition to the bills discussed above, there were a number of bills in the 109th Congress that would have expanded the current fencing and other forms of barriers at the international land border. Some of these bills would have required fencing to be constructed along the entire southwest border, others would have identified particular stretches of land which would receive fencing, and still others would have called for studies to determine whether fencing is a cost-effective way of securing the border.\footnote{Bills with border fencing language in the 109th Congress included H.R. 418, H.R. 1268, H.R. 4083, H.R. 4312, H.R. 4437, H.R. 5067, H.R. 5456, H.R. 5631, H.R. 6061, S. 1916, S. 2049, S. 2061, S. 2117, S. 2368, S. 2377, S. 2454, S.Amdt. 3192, S. 2611, S. 2612, S. 3564, and S.Amdt. 4788.}

**Issues For Congress**

Congress may consider a number of policy issues concerning the construction of barriers along the border, including, but not limited to, their effectiveness, overall costs compared with benefits, possible diplomatic ramifications, unintended consequences, and the locations in which they are to be constructed. Although these issues apply to all potential barriers at the border, due to the focus on border fencing in the current congressional debate, this section will focus its analysis on the potential policy issues surrounding the construction of fencing at the border.

**Effectiveness**

Proponents of border fences point to the substantial reduction in apprehensions along the San Diego sector as tangible proof that fences succeed in reducing cross-border smuggling and migration where they are constructed.\footnote{For the views of supporters of border fencing, refer to “We Need a Fence,” available at [http://www.weneedafence.com/], and Thomas Sowell, “Let’s Get Our Terms Straight,” available at [http://www.annistonstar.com/opinion/2006/as-insight-0402-0-6d01s3130.htm].} Opponents attribute part of the decrease in apprehensions to the increase in manpower and resources in the sector and, pointing to the increase in apprehensions in less-populated sectors, contend that the fence only succeeds in re-routing unauthorized migration and not in stopping it.\footnote{For the views of opponents of border fencing, refer to Eilene Zimmerman, “Against the Wall,” *Salon*, Dec. 12, 2005, at [http://dir.salon.com/story/news/feature/2005/12/12/border_wall/index.html], last visited Sept. 21, 2006, and Molly Ivins, “Another Brick in the Wall,” available at [http://www.annistonstar.com/opinion/2006/as-insight-0402-0-6d01s3130.htm].} The USBP, for its part, states that border fencing is a force multiplier because it allows its agents to focus enforcement actions in other areas. The USBP has also stated that the fencing constructed in urban areas has helped reroute unauthorized migration to less populated areas where its agents have a tactical advantage over border crossers. As previously noted, the number of USBP apprehensions in 2004 were almost identical to the number of apprehensions in 1992;
the main difference is that San Diego accounted for the majority of apprehensions in 1992, whereas in 2004 Tucson and Yuma sectors accounted for the majority of apprehensions.

A possible issue for Congress concerns the overall effectiveness of border fencing, especially if it is not constructed across the entire border in question. In the limited urban areas where border fencing has been constructed, it has typically reduced apprehensions. However, there is also strong indication that the fencing, combined with added enforcement, has re-routed illegal immigrants to other less fortified areas of the border. Additionally, in the limited areas where fencing has been erected, there have been numerous breaches of the border fencing and a number of tunnels discovered crossing underneath the fencing. It stands to reason that even if border fencing is constructed over a significant portion of the land border, the incidences of fence breaches and underground tunnels would increase. Possible policy options to address these issues could include mandating that border fencing be highly tamper-resistant or directing CBP to invest in tunnel-detection technologies.

Costs

Because border fencing is a relatively new and limited phenomenon along the U.S.-Mexico border, there is a dearth of information concerning its overall costs and benefits. The Corps of Engineers study predicted that the costs of constructing a double layer fence consisting of primary fencing and Sandia fencing would range from $1.2 million to $1.3 million a mile, excluding the costs of land acquisition. The Corps of Engineers also predicted that the 25-year life cycle cost of the fence would range from $16.4 million to $70 million per mile depending on the amount of damage sustained by the fencing. If significant portions of the border were to be fenced, reducing the areas along which individuals could cross the border, it may stand to reason that the fencing will be subjected to more breaches and other attempts to compromise than the fencing that has already been constructed. This may mean that the costs of maintaining border fencing that is widely deployed in the future will be higher than they have been thus far for the limited deployment. The Corps estimates do not include the costs of acquiring the land or most labor costs, since construction would be done by DOD; these could well turn out to be significant expenses if private contractors are used to construct the fencing as per DHS’ FY2007

\[82\] As previously noted on pages 19-21, these numbers reflect Corps figures for the construction and 25-year life cycle costs associated with erecting primary landing mat and secondary Sandia fencing along the border. The Corps study used 1997 dollars, which have been adjusted by CRS using a GDP deflator to 2005 dollars. The actual predictions made by the Corps for constructing and maintaining primary fencing, in 1997 dollars, were $341,584 to $379,538 per mile for construction costs, and $1,534 to $15,629 per mile per year in maintenance costs. The 25-year life-cycle costs for constructing and maintaining landing mat fencing were predicted to range between $4.73 and $7.34 million per mile in 1997 dollars. The actual predictions made by the Corps for constructing and maintaining Sandia fencing, in 1997 dollars, were: $691,680 to $768,533 per mile for construction, and $839 to $6,715 per mile for maintenance. The 25-year life cycle costs for constructing and maintaining Sandia fencing were predicted to range between $9.73 million to $54.23 million per mile in 1997 dollars. Corps of Engineer Study, p. 3 and pp. 21-23.
Congressional Budget Justifications. The Congressional Budget Office (CBO) has estimated that border fencing would cost $3 million a mile to construct and that maintenance would total roughly 15% of the overall project costs per year.83 However, the CBO does not elaborate on what is included in those estimates. DHS predicts that the San Diego fence will have a total cost of $127 million for its 14-mile length when it is completed — roughly $9 million a mile. Construction of the first 9.5 miles of fencing cost $31 million, or roughly $3 million a mile, while construction of the last 4.5 miles of fencing is projected to cost $96 million, or roughly $21 million a mile.84 However these costs may be somewhat misleading due to the following factors: construction of the fence was delayed for an extended period of time; the remaining construction involves filling a relatively large gulch which may be more complex than the average stretch of border; and DHS is proposing to use private contractors to expedite the construction process which may increase the labor costs and thus may increase the overall project costs.

Some have argued that building fences on the border is too expensive and would consume funding that would be better spent on hiring additional agents or deploying additional technologies to the border.85 Others maintain that the costs of fencing are negligible compared to the costs of illegal immigration, and that fencing has been proven effective at decreasing illegal immigration in those areas where it has been deployed.86 The USBP has testified that “for border control, for border security, we need that appropriate mix. It’s not about fences. It’s not about Border Patrol agents. It’s not about technology. It’s about all of those things.”87 At issue for Congress is how best to allocate scarce border security resources while safeguarding homeland security. Does border fencing represent the best investment of border security funding, and what is the appropriate mix of border security resources? How much will maintaining border fencing cost in the future, and which agency will be responsible for this maintenance? Will using private contractors to expedite the construction of border fencing increase or decrease the costs?


84 From the DHS FY2006 and FY2007 Congressional Budget Justifications.


86 For a series of examples, see Parapundit, Immigration Border Control Archives, available at [http://www.parapundit.com/archives/cat_immigration_border_control.html].

Fence Design

Congress mandated the design of the border fence in San Diego in IIRIRA. Many of the bills considered in the 109th Congress that include fencing provisions also identify the kind of fencing — typically double or triple fencing — that should be constructed. Many different fence designs could be deployed to the border, and each have their relative strengths and weaknesses. Concrete panels, for example, are among the more cost-effective solutions but USBP agents cannot see through this type of fencing; the USBP testified about their preference for fencing that can be seen through, so as to identify the activity occurring on the Mexican side of the border and thus preserve their tactical advantage over potential border crossers, and to better avoid potential rockings88 or other violent incidents. Sandia fencing has been effective in San Diego and can be seen through, but is among the more expensive fencing options. Bollard fencing has been effective in its limited deployment and can also be seen through, but is also expensive to install and to maintain. Chain link fencing is relatively economical, but more easily compromised.89 If fencing is to be constructed along the border, an issue concerns what kinds of fencing should be constructed in order to maximize its deterrent effect and its utility to the USBP while minimizing the costs associated with its construction and maintenance.

Fence Location

The USBP has testified that border fencing is most effective for its operational purposes when deployed along urban areas.90 In these areas, individuals crossing the border have a short distance to cover before disappearing into neighborhoods; once they have entered neighborhoods it is much more difficult for USBP agents to identify and apprehend unauthorized aliens. Also, from populated areas it is relatively easy for unauthorized aliens to find transportation into the interior. For these reasons, all of the border fencing constructed by the USBP to date has been built in urban areas abutting the border, such as San Diego, Nogales, and El Paso. In rural areas, the USBP testified that it has a tactical advantage over border crossers because they must travel longer distances before reaching populated areas. According to CBP, fencing is manpower intensive because agents must continually check the fence for breaches and for illegal activity. This does not represent a problem in urban areas, because the USBP stations are typically located near the border in those areas. In some of the more rural areas of the border, where the nearest towns and USBP stations may be many miles away from the border, this would mean that agents would need to spend much of their working day commuting from the nearest USBP station.

88 Rockings refer to the phenomenon of individuals on the Mexican side of the border hurling stones and other items over the fence at USBP agents and vehicles. In the Yuma sector, for example, agents patrolling along the fence are deployed in armored vehicles known as “war-wagons” to protect themselves from rockings and other forms of assault, which are common in that area. Information obtained during a CRS site visit to Yuma sector in August 2005.

89 Fencing the Border hearing, July 20, 2006.

90 Fencing the Border hearing, July 20, 2006.
to the fence location. Additionally, because the border fencing constructed to date has been built along urban areas it has been relatively easy to house the individuals involved in its construction. If border fencing is extended into the more remote areas of the border, the costs of its construction may increase due to the need to bring the individuals and goods needed to build the fence to these areas for extended periods of time. Lastly, some areas of the border are prone to severe weather effects, such as flash flooding, that could compromise any permanent structures constructed there.

A very practical issue concerns what areas of the border should be fenced. Should fencing be restricted to urban or semi-urban areas in order to give the USBP a tactical advantage over border crossers, or should fencing be constructed along any geographical area of the border that features large numbers of unauthorized immigration? In rural areas, should fencing be limited to areas of high illegal entry in order to impede individuals from crossing the border, or should fencing be constructed as a deterrent in any area, even those featuring low levels of illegal entry? Should fencing be deployed in sectors where the distance between the nearest USBP station and the fence requires agents to spend most of their day commuting? Should fencing be deployed to the northern border as well as the southwest border? Will building fencing along more remote or environmentally harsher areas of the border increase the construction costs?

Land Acquisition

There are a number of issues associated with the acquisition of the land that would be required for border fencing. Much of the land along the California and Arizona border is owned by the federal government; however most of the land along the Texas border is owned by private individuals. What will the costs of acquiring the land to construct border fencing be, and have these costs been factored into estimates of border fencing costs? Will eminent domain be used to confiscate land from individuals who do not wish to have fencing built on their lands?

The reservations made by Presidents Roosevelt and Taft may have kept substantial parcels of land within the federal domain, depending mostly on the amount of public lands at the time and valid existing claims. CRS was not able to determine how many valid claims and land patents exist, if any, or the number of private developments that may be encroaching on the reservations. Nonetheless, it appears that only those who qualify under an exception or were provided land by statute have valid fee title claims within the reserved strip. If lands were mistakenly granted, sold, or transferred to private parties, these conveyances could be void because, as a general rule, rights can not be acquired in lands actually embraced in a legally valid withdrawal. Compensation under the Fifth Amendment for private

91 Interview with CBP Congressional Affairs, Sept. 13, 2006.

92 Charles F. Wheatley, Study of Withdrawals and Reservations of Public Domain Lands, at Vol. III, at A-7 (1969); see also Steel v. Smelting Co., 106 U.S. 447, 453 (1882) (observing that the patent, like the deed of an individual, is inoperative if the government never owned the property, or had previously conveyed it, or had reserved it from sale); United States v. Fennell, 381 F. Supp. 2d 1300 (D. N.M. 2005). Cf. United States v. (continued...)
landowners may not be owed if private claims are not legitimate. Because the proclamations do not cite any supporting authority, some question the President’s implied or inherent constitutional powers to issue them.93 Others may argue that they conflict with the exclusive mandate given Congress by the Property Clause of the Constitution to regulate and dispose of federal property.94 An issue for Congress may include whether these proclamations are, in fact, valid, and if so what actions are appropriate to take in the instances where individuals own land within the reservation’s boundaries. Assuming the proclamations are valid, the reservations may provide the first 60 feet of necessary space for fence construction in many areas. However, the two layer fencing constructed to date includes 150 feet of land between its layers. An issue for Congress may involve whether to confine border fencing to the 60-feet easement reserved by the proclamations, or whether to acquire the additional 90 feet of land that would be needed to construct Sandia-style fencing.

A corollary issue may involve DHS’ authority to construct border fencing along tribal lands. The Arizona desert along the Tohono O’odham reservation has become one of the most heavily trafficked border areas in the country, and the USBP has been restricted in its operations in the reservation due to tribal concerns.95 The Tohono O’odham have reportedly vowed to fight the construction of fencing on tribe-owned land, citing environmental and cultural concerns.96 Under current law, the Secretary of the Interior may grant rights-of-way over and across tribal land, provided the Secretary receives prior written consent of the tribe.97 If the tribe does not consent, DHS may look to its new waiver authority to construct a fence across tribal lands. It is unclear, however, whether the expanded waiver that was given to the Secretary of DHS would allow (or was intended to allow) the Department to override the statutory authority given to another federal agency. Ultimately, federal government

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92 (...continued)

93 See United States v. Midwest Oil, 236 U.S. 459, 471 (1915) (upholding the President’s authority to make land withdrawals on the basis of implied acquiescence in such withdrawals by Congress), repealed by 43 U.S.C. §1714. The President’s constitutional inherent withdrawal power derived from three theories — residual Executive power, stewardship, and constitutional necessity. See Wheatley, Study of Withdrawals, at Vol I, at 134. In Midwest Oil, the Court noted that by 1910, the President had implemented at least 252 executive orders making reservations for useful, though non-statutory purposes. Id. at 471.

94 U.S. Const. Art. IV, §3, cl.2.

95 The USBP has been prohibited from building permanent camera installations and from paving access roads leading to and along the border. Information obtained during a CRS site-visit to the Tohono O’odham reservation, Aug. 2005.


holds all Indian lands in trust, and Congress may take such lands for public purposes, as long as it provides just compensation as required by the Fifth Amendment.\textsuperscript{98}

**Diplomatic Ramifications**

The governments of Mexico and Canada have both voiced concern about the United States constructing barriers along the international border. Mexican President Vicente Fox has come out strongly against the construction of border barriers on numerous occasions, stating his belief that these projects isolate the two nations, create frustration and misunderstandings, and do not solve the underlying problems that lead individuals to enter the United States illegally. Mexican Press Secretary Rubén Aguilar Valenzuela stated his government’s belief that “history has also taught us that a wall is never the solution to problems and that all walls eventually get torn down.”\textsuperscript{99} The Mexican government has reportedly forwarded numerous diplomatic notes to the White House registering its complaints against the possible expansion of border fencing. The Canadian government has also reportedly voiced concern over language that was inserted into H.R. 4437 that would require a study of fencing options along the northern border, citing the impracticality of fencing the northern border and the fact that the U.S. government has never discussed such a plan with Canadian authorities.\textsuperscript{100} Deputy Assistant Secretary for Immigration and Customs Enforcement John P. Clark reportedly stated during Congressional testimony that the proposed expansion of border fencing “harks back to the Chinese wall and the Berlin Wall, not the message we want to send to the Mexican government, the Canadian government, and the rest of the world.”\textsuperscript{101} There are a number of possible issues for Congress to consider involving the potential diplomatic ramifications of constructing barriers along the border: Do the gains in border security outweigh the risk of alienating Mexico and Canada? Should the Mexican or Canadian government’s opinions or wishes be taken into account when border fencing is concerned? Given the need to coordinate intelligence and law enforcement activities at the border, should maintaining cordial working relationships with Mexico and Canada take precedence over sealing the border with physical barriers?

**Environmental Considerations**

A great deal of debate has been around the environmental impacts of border fencing. The addition of fences along the southwest border, according to some, could


harm sensitive environments, adversely affect critical habitat for protected species, and block migratory patterns for animals. Indeed, these concerns were among the many voiced by the CCC in its objection to the completion of the San Diego border fence. After immigration officials, the CCC, and the environmental community could not agree on a fence design, Congress passed waiver language in the REAL ID Act that allows the Secretary of DHS to waive all “legal requirements” necessary to ensure expeditious construction of the barriers and roads in the vicinity of the U.S. border. The Secretary used this provision to waive a number of primarily environmental laws (see Appendix I) in order to complete the San Diego border fence. DHS maintains, however, that it will follow “best management practices” throughout construction and will be “mindful of the environmental impacts” that might occur. Nonetheless, the Secretary’s broad waiver authority has many worried about potential fence projects along other areas of the southwest border. Some argue that a fence along the Arizona border could be especially destructive to endangered jaguar and Sonoran desert pronghorn populations that usually roam this area because it would fragment native habitat and ultimately reduce gene pools. Officials from the U.S. Fish and Wildlife Service, however, have said that it is too early to speculate about the potential impact of a border fence on wildlife migration. Others note that unauthorized migration negatively impacts the environment, and believe that the construction of fencing could actually have a beneficial impact for protected lands if it reduces the number of unauthorized migrants traversing through environmentally sensitive lands.

As Congress debates immigration reform and the addition of new border fences, Members will undoubtedly be called upon to balance national security interests with environmental protections. Because there does not appear to be a clear consensus on the environmental impacts of border fencing, there is some interest in a study of the issue. The effects of the San Diego border fence, for example, may help scientists better understand and predict potential environmental consequences elsewhere. Should fencing be expanded along the southwest border, Congress may be interested in environmentally sensitive alternatives to normal fencing and whether they can effectively limit illegitimate cross-border traffic. Some argue that vehicle barriers may be less intrusive because they allow unimpeded wildlife movement but can limit

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103 Id; Defenders of Wildlife, On the Line, pp. 16-19.


105 Indeed, §129 of S. 2611 calls on the Secretaries of the Interior, Agriculture, Defense, and Commerce, and the Administrator of the EPA to assess the environmental impacts, including the impact on zoning, global climate change, ozone depletion, biodiversity loss, and transboundary pollution, of physical barriers along the southern international land and maritime borders.
damaging vehicular traffic. Congress may also call on the Secretary to cooperate or coordinate certain activities with the environmental community, since the Secretary could waive many environmental requirements.

Legal Considerations

The building of barriers along the international border has raised a number of legal issues. Most stem from requirements posed by environmental laws. Before the passage of the REAL ID Act waiver provision, for example, the Sierra Club and other environmental groups challenged, under the National Environmental Policy Act, the federal government’s plan to complete the San Diego border fence. The lawsuit alleged, among other things, that the government’s final environmental impact statement did not address the entire 14-mile border infrastructure system and inadequately addressed the parts that were evaluated. After Secretary Chertoff exercised the waiver authority, the court dismissed the environmentalists’ lawsuit in December 2005. The groups will reportedly file an entirely new lawsuit arguing that the government must still comply with certain laws, including the Clean Water Act and Clean Air Act and contend that the waiver extends beyond Congress’s authority.

With respect to the Secretary’s use of the waiver authority, the provision allows legal redress for only constitutional violations and limits review to the district courts of the United States. In essence, an individual could not sue DHS for bypassing the environmental impact statement requirements of the National Environmental Policy Act (a law it has waived) because that would be a statutory violation but could sue for the taking of property without “just compensation” as provided by the Fifth Amendment. Should a district court make a ruling, that decision can only be appealed to the Supreme Court — that is, there is no appellate court review. Appeal directly from a district court to the Supreme Court rarely appears in law and according to some scholars, has been a “failure.” Past experiences, for example, demonstrated that the cases took up a disproportionate amount of time for oral argument and came

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to the Court on inadequate records.\textsuperscript{112} Still, when Congress determines a particular class of cases to be of great public import, it is not unprecedented for it to require prompt review in the highest court of the land.

**Unintended Consequences**

Considerable evidence shows that the USBP’s historical strategy of “Prevention through Deterrence,” whereby agents and resources including border fencing and other barriers have been concentrated along urban areas and areas traditionally featuring high levels of illegal entry, has succeeded in changing the flow of illegal migration. While San Diego, CA, and El Paso, TX, were historically the two sectors that featured the most apprehensions and the highest levels of illegal immigration, since the mid-1990s and the advent of Operations Gatekeeper and Hold the Line in those sectors, the more remote geographical areas of the Arizona border have become the hot-spots for illegal migration into the United States. One unintended consequence of this enforcement posture and the shift in migration patterns has been an increase in the number of migrant deaths each year; on average 200 migrants died each year in the early 1990s, compared with 472 migrant deaths in 2005. Another unintended consequence of this enforcement posture may have been a relative increase, compared with the national average, in crime along the border in these more remote regions. While crime rates in San Diego and El Paso have declined over the past 15 years, the reduction in crime rates along the more rural areas of the border have lagged behind the national trends. Another unintended consequence of the border fencing has been the proliferation of tunnels dug underneath the border. In San Diego, where the double-layer Sandia fencing has been constructed, smugglers have dug numerous tunnels underneath the border fence. One such tunnel was almost a kilometer long and was built from reinforced concrete — evidence of a rather sophisticated smuggling operation.

A possible issue for Congress to consider as it debates expanding the existing border fencing is what the unintended consequences of this expansion could be. Given the re-routing of migration flows that have already occurred, are DHS and the relevant border communities prepared to handle the increased flow of illegal migration to non-reinforced areas? Is DHS prepared to deal with an increase in the phenomenon of cross-border tunnels and other attempts to defeat the purpose of the fencing? What will the impact on crime rates be along the unreinforced areas of the border? Will USBP agents be required to spend some of their patrolling time guarding the fence?

\textsuperscript{112} Id. Moreover, 28 U.S.C. §1254 allows the Court to bypass the courts of appeals by granting certiorari before judgement in those courts.
Appendix I: Examples of USBP Border Fencing

Appendix II: The San Diego Fence

Appendix III: Permanent Vehicle Barrier Schematic

Appendix IV: Permanent Vehicle Barriers

Source: CBP Congressional Affairs.
## Appendix V: Data From Figure 4

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**Source:** CRS Presentation of CBP data.
Appendix VI.
Legal Requirements Waived by DHS for the Construction of the San Diego Border Fence.

<table>
<thead>
<tr>
<th>Laws Waived</th>
<th>General Requirements</th>
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<td>National Environmental Policy Act (NEPA)</td>
<td>Under NEPA, an environmental impact statement must be prepared for “every recommendation or report on proposals for legislation and other major federal actions significantly affecting the quality of the human environment.” If an agency is uncertain whether an action’s impacts on the environment will be significant, it usually prepares an environmental assessment (EA). An EA is carried out to clarify issues and determine the extent of an action’s environmental effects.</td>
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<td>16 U.S.C. §§ 4321 et seq.</td>
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<td>Endangered Species Act (ESA)</td>
<td>Section 7 of the ESA mandates that each federal agency consult with the Fish and Wildlife Service (FWS) or National Marine Fishery Services (NMFS), depending on the listed species involved, to ensure that its actions are “not likely to jeopardize the continued existence of any endangered species or threatened species, or result in the destruction or adverse modification of” designated critical habitat. Once consulted, FWS or NMFS must, if listed endangered species might be affected, prepare a biological opinion to determine the actual impact of the proposed action.</td>
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<td>16 U.S.C. §§ 1531 et seq.</td>
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<tr>
<td>Costal Zone Management Act (CZMA)</td>
<td>The CZMA requires federal agency activity within or outside the coastal zone that affects any land or water use or natural resource of the coastal zone to be carried out in a manner that is consistent to the maximum extent practicable with the policies of an approved state management program. The federal agency must submit a consistency determination to the applicable state agency.</td>
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<td>16 U.S.C. §§ 1451 et seq.</td>
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<td>Federal Water Pollution Control Act</td>
<td>Section 404 of the Clean Water Act establishes a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Section 404 requires a permit before dredged or fill material may be discharged into waters of the United States, unless the activity is exempt.</td>
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<td>(Clean Water Act)</td>
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<tr>
<td>33 U.S.C. §§ 1251 et seq.</td>
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<td>National Historic Preservation Act (NHPA)</td>
<td>In accordance with the NHPA and its implementing regulations, 36 CFR Part 800, sites determined to be eligible for inclusion in the National Register of Historic Places must be protected, either through avoidance or other mitigative action, from direct and indirect impacts.</td>
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<td>Migratory Bird Treaty Act (MTBA)</td>
<td>Section 2 of the MTBA sets out the types of prohibited conduct and states: “Unless and except as permitted by regulations ... it shall be unlawful at any time, by any means, or in any manner, to pursue, hunt, take, capture, kill, attempt to do these acts, [or] possess ... any migratory bird, [or] any part, nest, or eggs of any such bird....”</td>
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<td>16 U.S.C. §§ 703 <em>et seq.</em></td>
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<td>Clean Air Act (CAA)</td>
<td>The Clean Air Act requires the Environmental Protection Agency to establish minimum national standards for air quality, known as National Ambient Air Quality Standards (NAAQS), and assigns primary responsibility to the states to assure compliance with the standards. Areas not meeting the standards, referred to as “nonattainment areas,” are required to implement specified air pollution control measures. Federal actions located in NAAQS nonattainment areas must comply with the federal general air conformity rule set forth by the CAA and codified in 40 CFR Part 51. The general conformity rule requires federal agencies to ensure that actions undertaken in nonattainment or maintenance areas are consistent with the applicable state plan. The states administer the CAA through a comprehensive permitting program.</td>
</tr>
<tr>
<td>42 U.S.C. §§ 7401 <em>et seq.</em></td>
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Under NEPA, an environmental impact statement must be prepared for “every recommendation or report on proposals for legislation and other major federal actions significantly affecting the quality of the human environment.” If an agency is uncertain whether an action’s impacts on the environment will be significant, it usually prepares an environmental assessment (EA). An EA is carried out to clarify issues and determine the extent of an action’s environmental effects.

The APA establishes the general procedures that an agency must follow when promulgating a legislative rule. An agency must publish a notice of proposed rulemaking in the Federal Register, afford interested persons an opportunity to participate in the proceeding through the submission of written comments or, at the discretion of the agency, by oral presentation, and when consideration of the matter is completed, incorporate in the rules adopted “a concise general statement of their basis and purpose.” A final rule must be published in the Federal Register “not less than 30 days before its effective date.”

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<tr>
<td>National Environmental Policy Act (NEPA)</td>
<td>Under NEPA, an environmental impact statement must be prepared for “every recommendation or report on proposals for legislation and other major federal actions significantly affecting the quality of the human environment.” If an agency is uncertain whether an action’s impacts on the environment will be significant, it usually prepares an environmental assessment (EA). An EA is carried out to clarify issues and determine the extent of an action’s environmental effects.</td>
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<td>Administrative Procedure Act (APA)</td>
<td>The APA establishes the general procedures that an agency must follow when promulgating a legislative rule. An agency must publish a notice of proposed rulemaking in the Federal Register, afford interested persons an opportunity to participate in the proceeding through the submission of written comments or, at the discretion of the agency, by oral presentation, and when consideration of the matter is completed, incorporate in the rules adopted “a concise general statement of their basis and purpose.” A final rule must be published in the Federal Register “not less than 30 days before its effective date.”</td>
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