Altus Air Force Base (AAFB), located in southwest Oklahoma, is home to the 97th Air Mobility Wing and hosts and operates the only heavy mobility and air-refueling schoolhouse in the Air Force for C-17, KC-135, & KC-46 aircraft. Over 2,000 students participate in initial training, requalification, and instructor training every year at AAFB. AAFB houses 18 full motion flight simulators, 9 refueling simulators and 5 cargo load trainers, as well as 3 runways used for heavy aircraft training. The installation’s strategic location and broad aviation capabilities allow the Air Force to continue to effectively train service men and women for worldwide deployment.

Low level airspace is crucial to AAFB’s mission. Potential wind energy development in the area poses a serious threat to the viability of the AAFB’s mission. Turbines penetrating into low level routes create avoidance areas, limit useable airspace, and reduce the availability of low level, airdrop training areas. AAFB is working with its partners to acquire restrictive use easements on properties surrounding the installation to limit the potential for height obstructions and radar interference.

In addition to mitigating encroachment challenges from wind development, AAFB is also working with the City of Altus and the Tom Steed Master Conservancy District to protect critical groundwater resources in the region. AAFB is dependent on the City of Altus for short-term and long-term water supplies, the majority of which are surface water. Recent droughts have brought into focus the need to bring groundwater supplies into the City’s water portfolio. Limited alternatives exist, but the City of Altus and the Tom Steed Master Conservancy together with AAFB are working to secure water rights to the Tillman Terrace aquifer to alleviate this challenge. This project will grant AAFB access to a reliable supply of water and help deliver secured groundwater to the City’s water system, thereby increasing drought resiliency of the base as well as the community.

**BENEFIT SUMMARY**

**COMMUNITY**
- Drought resiliency
- Access to reliable water supply

**MILITARY**
- Water security
- Protection of existing airspace and radar capabilities
- Increases operational safety

For more information about REPI, please see http://www.repi.mil.
Avon Park Air Force Range (AFR) is a 106,000-acre bombing and gunnery range located near the center of the state of Florida. The primary training range for Homestead Air Reserve Base, Avon Park AFR is used extensively by all four Services. The range hosts numerous squadron and unit-level deployments from across the country in addition to nearby Air Force bases with its large restricted airspace and operating area offering a critical training space. The range’s importance may increase with future missions, possibly including F-35 training.

The range’s location in central Florida also connects it with important ecosystems as part of the northern Everglades, as well as working agricultural lands. Restrictive easements on these lands will limit incompatible development and buffer the range in one of the fastest growing regions in the country. Protecting Avon Park AFR allows the range to maintain existing capabilities and keep pace with increasing requirements of new aircraft. Limiting potential development also avoids noise complaints and prevents light pollution that may impact night training.

The Avon Park AFR REPI project benefits stakeholders and industries important to the Florida economy, such as agriculture, recreation, and ecotourism. Protected lands will preserve water resources and wetlands, including lands important to the Everglades—one of only three designated wetland areas of global importance—and the entire southern Florida water supply. Large landscape-scale protection in this region provides opportunities to better align federal resources and strengthen locally-led conservation initiatives.

**BENEFIT SUMMARY**

**COMMUNITY**
- Protects working lands
- Supports existing regional planning efforts, including a Joint Land Use Study
- Protects water resources

**MILITARY**
- Preserves aviation maneuver and night flying training that produce significant noise or require minimal light pollution
- Provides for future mission growth

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For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Beale Air Force Base (AFB), located 40 miles north of the Sacramento metro area, is home to the PAVE Phased Array Warning System (PAWS), one of only three such systems in the United States. PAVE PAWS is used primarily to detect and track sea-launched and intercontinental ballistic missiles. The system also has a secondary mission of detecting and tracking Earth-orbiting satellites. Beale AFB also supports live-fire M-60 machine gun training to the benefit of all four Services.

Beale AFB’s missions are particularly vulnerable to incompatible development because of PAVE PAWS’ sensitivity to electromagnetic interference, while loud bursts from machine gun training can lead to noise complaints. Growth from surrounding Yuba County presents a threat to these high-level missions and other operations and training, such as surveillance and reconnaissance missions using the U-2 and MC-12 aircraft.

Easements acquired by the Trust for Public Land and the state as part of the Beale AFB REPI project will prohibit incompatible development adjacent to the installation boundary, thereby limiting potential electromagnetic interference with PAVE PAWS. Buffers for high noise areas and safety zones protect the installation and the public and support warfighter training while allowing continued grazing on open space owned by ranchers. The preserved land also benefits nearby natural and cultural resources, including vernal pools and other water resources, habitat for rare species, woodlands, and rangelands.

**BENEFIT SUMMARY**

**COMMUNITY**
- Preserves habitat for threatened species
- Maintains local character
- Protects water resources

**MILITARY**
- Preserves live-fire training that produces significant noise
- Reduces lost training days
- Supports multiple Service missions
- Reduces electromagnetic interference for sensitive training and operations

**KEY PARTNERS**
- California Department of Fish and Wildlife
- California Department of Transportation
- The Trust for Public Land
- Yuba County

**FAST FACTS THROUGH 30 SEP 2019**
- Acres preserved: 6,055
- Transactions conducted: 5
- Total funds expended: $9.4 million
- Project status: In Progress

**CONTACT**
Public Affairs Office
(530) 634-8887

For more information about REPI, please see http://www.repi.mil.
Buckley Air Force Base (AFB) is located in Aurora, Colorado, just east of Denver, and is home to multiple aviation alert, training, and refueling missions. With access to 11.1 million acres of associated airspace across five adjacent states, Buckley AFB supports training and operations for various fixed-wing and helicopter tenant units, as well as serving as a refueling location for DoD aircraft on cross-country flights, often including Air Force One. The 460th Space Wing is Buckley AFB’s home unit, with a mission to provide unencumbered “look angles” for antennae to ensure constant communication with space surveillance and missile tracking satellites.

To sustain the base’s diverse set of missions, Buckley AFB, the Trust for Public Land, and local governmental partners are working to protect agricultural, recreational, and other compatibly used lands, particularly along the E-470 highway corridor extending south from Denver International Airport toward the base’s eastern boundary. Development on Buckley AFB’s western boundary already forced the base to close one of its two runways. As more land is developed in proximity to the fence line, noise complaints increase, airspace becomes congested from changes in flight patterns, and light pollution impacts night vision training.

Accomplishing the partnership’s goals of protecting the military missions and providing recreational opportunities, wildlife corridors, and water resources will require creative action in an area of high property values. One example of this creative action is the partnership’s proposal to make multiple land trades that will complete full ownership of the base’s Clear Zone and add to the perimeter buffer, while providing a conservation benefit to a local creek and recreational area.

**BENEFIT SUMMARY**

**COMMUNITY**
- Protects agricultural and recreational lands
- Preserves wildlife corridors
- Supports new and existing regional planning objectives

**MILITARY**
- Preserves training and operations for various tenant units
- Protects the 460th Space Wing’s unique mission
- Ensures that existing compatible areas remain compatible

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
The only space launch site capable of placing satellites into geosynchronous orbit, Cape Canaveral Air Force Station (AFS) is a unique resource relied upon by both government and commercial space operations. However, loss of scrub habitat and concomitant impacts to the threatened Florida scrub-jay pose a significant threat to current and future launch programs.

Current launch programs are constrained within their existing footprint on base, and the only available land for any new “heavy” launch vehicle or processing facilities is mostly scrub habitat. All activities at Cape Canaveral AFS that impact scrub habitat incur a 4-to-1 mitigation requirement to offset the habitat loss. But since the base is only 15,800 acres and is surrounded by water on three sides, land is limited.

To protect its mission and preserve this endangered habitat, Cape Canaveral AFS has partnered with Brevard County and its voter-approved Environmentally Endangered Lands Program to preserve nearby undeveloped scrub habitat. This project helps protect survival of the Florida scrub-jay and provides the Cape with opportunities to reduce its mitigation ratio, allowing additional lands to be put to mission use. The project alleviates threats to future missions and allows continued access to space—including access for GPS, communications, and weather satellites—that benefits the entire nation.

BENEFIT SUMMARY

COMMUNITY
• Coordinates with existing regional planning efforts
• Preserves habitat for threatened and endangered species
• Protects local character

MILITARY
• Preserves launch capabilities and supports government and commercial space programs
• Provides for future mission growth

KEY PARTNERS
• Brevard County Environmentally Endangered Lands Program
• The Nature Conservancy
• U.S. Fish and Wildlife Service

FAST FACTS THROUGH 30 SEP 2019
• Acres preserved: 190
• Transactions conducted: 11
• Total funds expended: $3.7 million
• Project status: In Progress

CONTACT
Public Affairs Office
(321) 494-5933

For more information about REPI, please see http://www.repi.mil.
Remotely located in eastern North Carolina, Dare County Bombing Range is the primary training range for F-15E aircraft crews from Seymour Johnson Air Force Base and the primary backyard range for F/A-18 squadrons operating out of Naval Air Station Oceana. The range is an electronic combat, day-night, and air-to-ground training site critical to both installations and Army and Navy special operations teams (including SEALs). Together, the Air Force and Navy are working to protect land near and under special use airspace, military training routes, and bombing run flight tracks near this important range.

Easements acquired with The Nature Conservancy will prevent incompatible uses such as wind energy development in areas near the range identified by range and air installation compatible use zone studies. The protected land includes forested wetlands, which are important for numerous species such as the red-cockaded woodpecker, red wolf, and area-sensitive songbirds. Keeping the range isolated and in its natural state ensures that special operations teams can continue their weapons training and Joint Tactical Air Control exercises.

Buffering the range also allows the Services to expand on current training capabilities, with Navy SEALs planning future riverine training and the Air Force developing a military operations in urban terrain target area, similar training that prepared fighter crews for close air support missions in Afghanistan. Sustaining these capabilities is only possible through partnership with The Nature Conservancy to protect Dare County’s significant undeveloped wetlands and forest landscape.

**BENEFIT SUMMARY**

**COMMUNITY**
- Protects working lands
- Brings together new partners in support of coordinated regional planning efforts
- Preserves habitat within a green corridor

**MILITARY**
- Avoids or reduces less-realistic workarounds that would otherwise limit training capacity
- Increases operational safety
- Supports multiple Service missions

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).

**KEY PARTNERS**
- Ducks Unlimited
- National Fish and Wildlife Foundation
- National Wild Turkey Federation
- North Carolina Clean Water Management Trust Fund
- North Carolina Coastal Federation
- North Carolina Coastal Land Trust
- North Carolina Department of Agriculture and Consumer Services
- North Carolina Department of Environment and Natural Resources
- North Carolina Division of Coastal Management
- North Carolina Division of Parks and Recreation
- North Carolina Forest Service
- North Carolina Natural Heritage Program
- North Carolina Wildlife Resources Commission
- The Nature Conservancy
- U.S. Fish and Wildlife Service
- U.S. Forest Service

**FAST FACTS THROUGH 30 SEP 2019**
- Acres preserved: 14,181
- Transactions conducted: 11
- Total funds expended: $13.9 million
- Project status: In Progress

**CONTACT**
Public Affairs Office
Seymour Johnson Air Force Base
(919) 722-0027
Davis-Monthan AFB (DMAFB), located in Tucson, Arizona, is home to the 12th Air Force, the 214th Reconnaissance Group, and the 309th Aerospace Maintenance and Regeneration Group (AMARG), better known as the “Boneyard”, which manages more than 4,500 aircraft that have been sent for storage or retrofitting. AMARG and other missions leverage the base’s 13,645-foot runway—one of the longest in the Air Force—which can accommodate any aircraft in the Air Force inventory. DMAFB also hosts the Arizona Air National Guard, which stands alert 24/7 to ensure aerospace control over a 225,000-square mile area that reaches across six states.

Development on DMAFB’s northwestern boundary has already forced 90% of all approaches and departures to the southeast, and approximately 20% of sorties with live munitions are impeded by wind shifts that would normally dictate takeoff to the northwest. Areas to the installation’s southeast are developing quickly enough that five to ten more years of incompatible development may severely impact DMAFB flying missions, including night and weekend flying missions. DMAFB is working with state, county, city, and local stakeholders through programs such as the Air Force Community Partnership to reduce, and ultimately eliminate, encroachment. Partner efforts to develop and adopt restrictive land-use and development compatibility policies and acquire restrictive-use easements are ongoing.

Pima County is working with DMAFB to find compatible uses and solutions for undeveloped lands surrounding the base that will also maintain natural desert areas, grasslands, and the natural habitat. Acquiring restrictive-use easements will help ensure the preservation of ranching heritage. These combined efforts will also benefit local residents through reduced noise levels and reduced safety concerns.

**COMMUNITY**
- Supports new and existing regional planning objectives
- Preserves habitat

**MILITARY**
- Preserves aviation maneuver and night flying training that produce significant noise or require minimal light pollution
- Supports multiple Service missions
- Preserves training and operations for various tenant units
- Protects the 309th Aerospace Maintenance and Regeneration Group’s unique mission
- Ensures that existing compatible areas remain compatible
- Ensures the ability to conduct operations and training activities

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Edwards Air Force Base (AFB) is home to the 412th Test Wing and the United States Air Force Test Pilot School. The 412th conducts research, development, test, and evaluation of aerospace systems. Using nearly two million acres of special use airspace around Edwards AFB, the 412th Test Wing advances airborne systems, including but not limited to avionics, electronic combat, autonomy, and surveillance.

The 412th Test Wing’s work requires an environment free of radio frequency interference. Therefore, increased urban and renewable energy development in the vicinity of the installation complex threatens its mission. Wind energy development in the State of California has already impaired the ideal testing environment at Edwards AFB. Additionally, light generated from new residential development in the Antelope Valley may interfere with the testing equipment, which requires a dark night sky. Increased development could also potentially generate noise complaints that may restrict the installation’s flying mission.

To avoid increased radar spectrum interference, flight path obstruction, and noise impacts, Edwards AFB has partnered with local organizations to protect land around the installation. In addition to sustaining the mission, protecting surrounding land from urban development will create a critical wildlife corridor between the Coast Ranges and Sierra Nevada. A desert tortoise migration project planned for this corridor could also protect this species, which is listed as threatened under the Endangered Species Act, and could help limit the potential regulatory burden on the installation.

**Benefit Summary**

**Community**
- Provides habitat for threatened species and connects to a wildlife corridor
- Supports regional planning efforts
- Supports compatible development including possible solar energy sources

**Military**
- Protection of existing airspace and radar capabilities
- Protects the 412th Test Wing’s unique mission
- Ensures that existing compatible areas remain compatible

**Key Partners**
- Trust for Public Land

**Fast Facts Through 30 Sep 2019**
- Acres preserved: 0
- Transactions conducted: 0
- Total funds expended: 0
- Project status: Initiated

**Contact**

Public Affairs Office
(661) 277-3511

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Located in the Florida Panhandle, Eglin Air Force Base (AFB) is the Air Force’s largest installation and also includes extensive special use airspace to allow the base to carry out its test and evaluation mission. That mission is increasing in importance as the base will host Joint Strike Fighter (JSF) training that will require the Air Force, Navy, and Marine Corps to fly at low level into the Eglin range from a distance of 90 miles away.

To guard against incompatible development near future critical JSF operating areas, Eglin AFB’s partners are conserving large tracts of land located near and under the installation’s airspace, as well as within important wildlife corridors. Part of an unprecedented partnership, the base is protecting land within the Northwest Florida Greenway, a 100-mile habitat corridor between the base and the Apalachicola National Forest to the southeast. The base is also creating buffers between its boundaries and the Blackwater River State Forest to the north.

With strong support from the state’s Florida Forever program, the partnership’s dedication to the military mission allows Eglin AFB to continue to conduct its testing and training activities. While protecting a major regional economic driver, the partnership is also conserving one of the most biologically diverse regions in the country.

**BENEFIT SUMMARY**

**COMMUNITY**
- Supports a designated green corridor to enable wildlife to travel safely between habitats
- Supports existing regional planning objectives, including the implementation of a Joint Land Use Study
- Protects habitat for wildlife

**MILITARY**
- Protects off-installation maneuver test and evaluation capability
- Provides for future mission growth and multi-Service missions

**KEY PARTNERS**
- City of Niceville
- Florida Defense Alliance
- Florida Department of Agriculture and Consumer Services
- Florida Department of Economic Opportunity
- Florida Department of Environmental Protection
- Florida Division of Recreation and Parks
- Florida Fish and Wildlife Commission
- Florida Forest Service
- National Fish and Wildlife Federation
- Okaloosa County
- Okaloosa County Water and Sewer Department
- State of Florida
- The Nature Conservancy

**FAST FACTS THROUGH 30 SEP 2019**
- Acres preserved: 24,027
- Transactions conducted: 5
- Total funds expended: $24.3 million
- Project status: In Progress

**CONTACT**
Public Affairs Office
(850) 882-3931

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Ellsworth Air Force Base (EAFB), located in western South Dakota, hosts the 28th Bomb Wing, one of only two B-1B Lancer bomber wings in the world. EAFB also remotely employs MQ-9 Reaper unmanned aircraft from ground control facilities in support of worldwide operations and provides expeditionary combat power for America. For example, in 2011, B-1 bombers launched from Ellsworth to strike targets in Libya in support of Operation Odyssey Dawn.

Protecting EAFB’s single runway from encroachment is vital for continuing operations as well as access to the nearby nine million-acre Powder River Training Airspace. However, residential homes and small businesses located close to the base and within Accident Potential Zones may impede the Air Force’s ability to carry out the mission at EAFB. In addition to Ellsworth’s 9,500 military and civilian employees and families, the base is located 10 miles east of Rapid City and just outside of Box Elder.

To ensure that South Dakota remains a great place for the Air Force to conduct its mission and to protect and promote the economic impact of EAFB, in 2009 the South Dakota Legislature created the South Dakota Ellsworth Development Authority (SDEDA). SDEDA is building new homes, including low-income housing, in compatible locations outside the safety zones and 100-year floodplain. Meanwhile, EAFB donated lands to the community to develop a new elementary school and mixed-use compatible development area, making this project a win-win for the local economy and military mission.

**BENEFIT SUMMARY**

**COMMUNITY**
- Improves community health and safety
- Improves the economic and social viability of local communities
- Supports regional planning efforts, including zoning and overlay districts by local jurisdictions
- Preserves existing open space and working agricultural land

**MILITARY**
- Removes existing encroachment within the operational mission area
- Ensures that existing compatible areas remain compatible
- Ensures the ability to conduct operations and training activities

**KEY PARTNERS**
- Black Hills Vision
- City of Box Elder
- Meade County
- Pennington County
- Rapid City
- South Dakota Ellsworth Development Authority
- West River Foundation

**FAST FACTS**

- Acres preserved: 2,872
- Transactions conducted: 72
- Total funds expended: $15.9 million
- Project status: In Progress

**CONTACT**

28th Bomb Wing Public Affairs Office
(605) 385-5056

For more information about REPI, please see http://www.repi.mil.
**READINESS AND ENVIRONMENTAL PROTECTION INTEGRATION [REPI] PROGRAM PROJECT PROFILE**

**U.S. AIR FORCE**

**FAIRCHILD AFB** : WASHINGTON

Fairchild Air Force Base (AFB), located just 15 miles west of Spokane, Washington, hosts the 92nd Air Refueling Wing (which is assigned to support the Air Mobility Command’s 15th Expeditionary Mobility Task Force) and the 141st Air Refueling Wing. The base’s missions involve providing air refueling as well as passenger and cargo airlift and aero-medical evacuation missions supporting U.S. and coalition conventional operations.

The completed Fairchild AFB REPI project resulted in Spokane County purchasing a restrictive use easement on land adjacent to the eastern boundary of the installation, lying within safety zones for one of the base’s runways. The property will now remain as rural open space rather than being used for mining, which would create retention ponds, dust, and light hazards. The county also rezoned the easement property from mining to rural traditional. The easement keeps the property free of structures, allows tree removal, and prevents agriculture that could attract birds or other wildlife that would contribute to a bird aircraft strike hazard. The land will also be used to relocate a rail line that currently runs through the base.

As part of the REPI project, the easement allows Fairchild AFB to move a security fence located around the runway approach to another location away from the runway, thus eliminating the base’s need to obtain an Airfield Waiver as required by Federal Aviation Administration regulations. The state of Washington recognized the economic importance of protecting the Air Force mission and provided funding for this REPI project from the Washington (state) Military Communities Infrastructure Grant, through the Trade and Economic Development Division.

**BENEFIT SUMMARY**

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<tr>
<th>COMMUNITY</th>
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<tr>
<td>• Preserves habitat</td>
<td>• Protects aviation maneuver capabilities</td>
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<td>• Increases operational safety</td>
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</table>

**KEY PARTNERS**

- Spokane County
- Washington Trade and Economic Development Division

**FAST FACTS THROUGH 30 SEP 2019**

- Acres preserved: 150
- Transactions conducted: 1
- Total funds expended: $600 thousand
- Project status: Completed

**CONTACT**

Public Affairs Office
(509) 247-5705

For more information about REPI, please see http://www.repi.mil.
Employming more than 23,000 military, civilian, and contractor personnel, and spanning nearly 7,000 acres, Hill Air Force Base (HAFB) is the Air Force’s second largest base by population and geographical size. The 75th Air Base Wing, the host unit at HAFB, is the Air Force’s single provider of Standard Air Munitions Packages, which support wartime activities around the world. Nearly half the base’s real estate is dedicated to the safe storage, depot-level maintenance, and rapid processing of such munitions. HAFB also provides support services to over 50 mission partners, including the coordination of runway and training activities at the Utah Test and Training Range. The geographic landscape in this region is mountainous, providing “real world” practice situations for Air Force pilots as they prepare for overseas conflict. Its strategic location, training facilities, and munitions make HAFB an important asset to protect.

The locale surrounding HAFB has been the fastest growing in the state of Utah for the last 20 years, increasing the potential for incompatible development. If development does occur, especially within HAFB’s Accident Potential Zones (APZs), the installation would face an increase in flight risk, noise complaints, and light pollution, all of which could affect the mission. Through this REPI project, HAFB will work together with its partners to acquire restrictive-use easements that will reduce the potential for incompatible development in its APZs. This will allow for the continued use of the airspace around HAFB for flying missions, without risk of interference.

Another benefit of this project is HAFB’s plan to convert gravel pits into lakes or reservoirs for water conservation. The goal is to convert gravel quarries into a water source that will provide enough recharge pressure to maintain and recharge local aquifers protecting them from saltwater intrusion from the Great Salt Lake. With the continued droughts in the West, this is a critical cause that would not only benefit HAFB, but also the surrounding communities and promote drought resilience.

**BENEFIT SUMMARY**

**COMMUNITY**
- Preserves drinking water source
- Improves community health and safety

**MILITARY**
- Improves operational safety
- Preserves off-installation night flying capability through the buffering of high noise areas

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Melrose Air Force Range (MAFR) provides more than 4,500 training hours for Special Operations Forces each year. These hours consist of strike, intelligence, surveillance, reconnaissance, mobility, battlefield support, special tactics, and ground force mission training for Special Operations Forces. In addition, the integrated nature of this range allows for combined air and ground training operations in settings very similar to those found in current areas of conflict, yielding greater success on the battlefield.

Although MAFR is located in rural eastern New Mexico, the elevation of the surrounding topography is very appealing to wind energy developers. MAFR is a relatively small range, therefore construction of turbines in the area would create vertical hazards and light-pollution capable of rendering 50% of training activities impracticable. With the support of the state, partner and REPI funding, this project will secure restrictive use easements to provide buffer protection at MAFR to mitigate the impacts of potential incompatible development.

The land surrounding MAFR is currently used compatibly as rangeland, farmland, and grasslands. The grassland environment also serves as habitat to the critically endangered lesser prairie chicken and other ground nesting species. By protecting this land from development, historical agricultural operations will be sustained, and rangelands and grasslands will be preserved, benefitting the local wildlife and the military mission.

**BENEFIT SUMMARY**

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<th>COMMUNITY</th>
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<tr>
<td>- Protects working lands</td>
<td>- Ensures that existing compatible areas remain compatible</td>
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<td>- Maintains existing land use patterns</td>
<td>- Ensures the ability to conduct operations and training activities</td>
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<td>- Preserves habitat for endangered species</td>
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<tr>
<td>- Maintains local character</td>
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For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Robins Air Force Base (AFB) hosts multiple flying missions and performs depot-level maintenance and avionic overhaul for aircraft, weapons systems, and missiles. Located in central Georgia, Robins AFB is the largest industrial complex in the state and economically vital to Houston, Bibb, and Peach counties. To protect the base’s ability to carry out post-maintenance test flights from current and future incompatible development, the three counties are working together as a part of the Middle Georgia Regional Commission with the state’s Central Georgia Joint Development Authority.

These partners are acquiring parcels near the base’s aircraft approach and departure corridor to ease mission restrictions, such as nighttime flying restrictions. This project stems from a 2004 Joint Land Use Study recommendation and includes the removal of buildings on protected parcels that violate safety and noise zone compatibility recommendations. The partnership is protecting a valuable economic engine that provides a $4.1 billion annual impact.

To date the project has rectified incompatible development in Accident Potential Zone (APZ) I by 90%, APZ II by 75%, and high level noise contours by 90%. Once complete, the project will have near 100% compatibility within these three areas. The project also will benefit agricultural and habitat uses around the base. These parcels offer strategic preservation of significant wetlands and recreational opportunities along the Ocmulgee River, and the sale of state- or county-owned parcels for agricultural or limited industrial use puts the land back into the local tax base.

**Benefit Summary**

**Community**
- Supports coordination with existing regional planning efforts
- Supports implementation of a Joint Land Use Study
- Protects lands that provide economic benefit
- Protects public health, safety, and welfare

**Military**
- Protects maneuver capabilities
- Provides for future mission growth

**Fast Facts Through 30 Sep 2019**

- Acres preserved: 737
- Transactions conducted: 216
- Total funds expended: $19.7 million
- Project status: In Progress

**Contact**

Public Affairs Office
(478) 926-2137

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Tinker Air Force Base (AFB) supports Air Force and Navy alert missions that require one runway to be open at all times. As part of the Strategic Communications Wing One at the base, Navy E-6 squadrons maintain flying and communications link among the White House, ballistic missile submarines, bombers, and missile silos around the world. Because one runway must remain operational at all times to support this mission, it is imperative that Tinker AFB maintains two active runways.

The base’s crosswind runway’s safety and noise zones are constantly under developmental pressure from nearby Oklahoma City and its suburbs, including potential commercial retail development. This REPI project will implement recommendations from a Joint Land Use Study to protect these high priority safety and noise zones, with Tinker AFB’s partner, Land Legacy, acquiring conservation easements to preserve wetlands, habitat, and water resources.

Further contributing to the partner cost-share of this REPI project includes a donation of a conservation easement as well as a second partial land value donation of another tract. Conservation of these lands will ensure that Tinker AFB can continue to use its crosswind runway, making sure it is open and able to support its operational mission, which would otherwise have to deploy or relocate at a significant cost. The easements not only preserve compatible uses that protect the local watershed and floodplain, but also support habitat for rare and at-risk species such as the Texas Horned Lizard.

**BENEFIT SUMMARY**

**COMMUNITY**
- Supports coordination with existing regional planning efforts, including a Joint Land Use Study
- Preserves habitat
- Preserves water resources

**MILITARY**
- Protects aviation maneuver training that produces significant noise
- Increases operational safety
- Supports multiple Service missions

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
Located east of Fairfield near the San Francisco Bay area, Travis Air Force Base (AFB) is known as the “Gateway to the Pacific.” The base supports the 60th Air Mobility Wing, the largest mobility organization in the Air Force, with a versatile fleet of cargo and refueling jets. Travis AFB handles more cargo and passenger traffic through its airport than any other military air terminal in the country. As such, the base also has a significant economic impact and is the largest employer in Solano County.

This REPI project involved Travis AFB’s partner, the Solano Land Trust, acquiring a conservation easement to preserve habitat and agricultural values around the base. The easement protects the land from uses such as wind turbines that interfere with radar, wetlands that attract a bird aircraft strike hazard, or housing development that can lead to noise complaints and mission restrictions. The preserved land is home to high-quality vernal pool grasslands, including land within a National Natural Landmark, as well as numerous rare species within the vernal pools.

As its mission grows, Travis AFB may need to develop on-base construction projects that require mitigating against disturbances of habitat for threatened, endangered, and at-risk species. Protecting the critical habitat on this property provides an opportunity for the base to seek possible mitigation credits against on-base actions. The partnership also furthers the coordinated planning efforts among the local governments and Travis AFB to ensure compatibility between community noise and safety concerns with military operations.

**BENEFIT SUMMARY**

**COMMUNITY**
- Protects working lands that maintain local character
- Preserves habitat for threatened and endangered species
- Protects water resources

**MILITARY**
- Protects maneuver training capabilities
- Prevents electromagnetic interference
- Increases operational safety

For more information about REPI, please see http://www.repi.mil.
Tyndall Air Force Base (AFB) is part of a complex of installations, ranges, military operating areas, and airspace in Northwest Florida and the Gulf of Mexico and is essential to maintaining U.S. air dominance with its contingent of F-22 Raptors, the largest in the Department. The Tyndall AFB airspace will also see an increase in operations by F-35s, including those stationed at nearby Eglin AFB. This airspace connects to the vast Gulf of Mexico Water Ranges that span from Tyndall to Key West and overlays mostly undeveloped lands, offering a unique locational asset.

Given Tyndall’s easy access to range assets and its heavy use, with 250 training days a year, the Air Force is working to protect and maintain the unencumbered nature of its mission footprint. This includes protecting agricultural land, wetlands, and other coastal areas within high noise zones, the runway approach-departure corridor, and the base boundary, along with preventing tall structures in sections of Tyndall’s operating area used for low-level flights. Protecting these areas allows Tyndall to fully utilize unique training capabilities, such as a Precision Approach Radar system for pilots to train to land in bad weather or with a damaged aircraft, or testing air-to-air missile capabilities.

The REPI partnership at Tyndall AFB has numerous mission benefits as well as environmental benefits. Tyndall AFB’s partners are adding to the Northwest Florida Greenway, a wildlife corridor of conservations lands stretching from Eglin AFB through the Apalachicola National Forest to the Gulf of Mexico. This regional effort will also leverage a variety of federal and state funding sources, including the Longleaf Stewardship Fund, Gulf RESTORE Act, and Florida Forever.

**BENEFIT SUMMARY**

**COMMUNITY**
- Supports a designated green wildlife corridor
- Protects agricultural land, wetlands, and other coastal areas
- Encourages coordination among federal, state, and local partners

**MILITARY**
- Ensures that existing compatible areas remain compatible
- Protects aviation maneuver capabilities
- Promotes continued operational safety

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
For more information about REPI, please see http://www.repi.mil.

The U.S. Air Force Academy (USAFA) provides an immersive Air Force experience for its Cadets. USAFA is the only commissioning source that provides the day-to-day fundamentals of flight and military training. On-site military field training is conducted in Jacks Valley Training Area, 5,000 acres of training land that is shared with Peterson AFB and other federal, state, and local organizations. Using the 1,100-acre USAFA Airfield and 155,187 acres of airspace, approximately 600 Cadets complete Powered Flight Training, 1,200 complete Soaring Training, and 750 complete Parachute Training annually.

Ground training in Jacks Valley is at risk due to increased residential development north of the installation. In addition to noise complaints, development along the base’s fenceline allows for observation of military training exercises and potential conflicts with unmanned aircraft system training. USAFA is working with the Trust for Public Land to acquire restrictive-use easements on over 1,360 acres of land adjacent to Jacks Valley. This buffer will allow training activities to proceed without adversely affecting neighboring communities. This REPI project will not only strengthen military readiness, but also provide critical habitat for the Preble’s Meadow Jumping Mouse, a Federally-listed threatened species. It will also help protect nearly $1 billion in annual economic contributions USAFA makes to the community.

Flight training is also at risk due to increased urban higher-rise development and increased demand for wind turbines under flight training areas to the east of USAFA. In addition to pursuing REPI projects for these priority areas, USAFA will continue to engage local developers and community leaders to increase awareness on encroachment impacts to the installation’s mission.

**BENEFIT SUMMARY**

**COMMUNITY**
- Brings together new partners
- Preserves threatened species habitat
- Protects land that provide economic benefit

**MILITARY**
- Prevents workarounds that would reduce test and training capacity
- Increases operational safety
- Reduces lost training days and the need for workarounds

**U.S. AIR FORCE ACADEMY**

For more information about REPI, please see http://www.repi.mil.
Vandenberg Air Force Base (AFB) is one of the primary west coast tactical Air Force locations. Operated by the 30th Space Wing, Vandenberg houses silos and launch sites to test and launch Minuteman nuclear intercontinental ballistic missiles, Delta rockets, and government and commercial satellites. With launches coming at a cost of $213 million, the base supports a valuable test and training mission. Located along the coast north of Santa Barbara, Vandenberg is surrounded by grazing lands and open beaches, providing compatible uses under the base’s special use airspace.

In partnership with the Land Conservancy of San Luis Obispo County and others, Vandenberg is protecting land within the base’s airspace and also within the Impact Limit Line for missile launches. Land purchased by the Land Conservancy of San Luis Obispo limits incompatible development and lowers potential issues related to possible falling debris within the Impact Line. Non-launch-essential personnel and the general public are evacuated from the area for launches, and any delays resulting from the presence of nearby incompatible uses could cost as much as $500,000 a day.

As part of this project, the Land Conservancy of San Luis Obispo deeded the land to Santa Barbara County for use as a passive recreational center and to expand the Point Sal Reserve area. Additionally, the base’s partners are building off these efforts to protect 20 miles of the Guadalupe-Nipomo dunes ecosystem, which sustains coastal dune shrub, freshwater ponds and lakes while providing a buffer for the community adjacent to Air Force flight and missile testing.

**BENEFIT SUMMARY**

**COMMUNITY**
- Preserves habitat for threatened and endangered species
- Protects water resources
- Provides recreational opportunities
- Maintains local character

**MILITARY**
- Improves operational safety
- Prevents costly workarounds that would otherwise limit test and training capacity

The Delta IV Heavy rocket stands 235 feet tall and is America’s most powerful liquid-fueled rocket (top). Point Sal Reserve area was preserved for use as a passive recreational center (bottom).

**KEY PARTNERS**
- California State Coastal Conservancy
- Land Conservancy of San Luis Obispo
- National Oceanic and Atmospheric Administration–Coastal Estuarine and Land Conservation Program
- Santa Barbara County
- The Nature Conservancy
- Trust for Public Land

**FAST FACTS THROUGH 30 SEP 2019**
- Acres preserved: 951
- Transactions conducted: 2
- Total funds expended: $5.2 million
- Project status: Completed

**CONTACT**

Public Affairs Office  
(805) 606-3595

For more information about REPI, please see [http://www.repi.mil](http://www.repi.mil).
One of the most heavily utilized Air National Guard training ranges in the U.S., Warren Grove Range is a key Northeast training asset for all four Services, with its remote location providing unique operational capabilities. However, its location in the New Jersey Pinelands is also one of the most flammable areas in the country. Every year training activities ignite one fire every 10-14 days, which are suppressed on-site. When wildfires occur, the range must be totally shut down until the fires are suppressed. To reduce the wildfire danger, controlled burns are necessary to manage forest undergrowth. Without buffer lands to properly address undergrowth and fire concerns, the military mission at the range is endangered. In May 2007, the range shut down entirely for more than a year. Now, REPI efforts to establish buffer lands surrounding the range are protecting the viability of continued training missions, including use of conventional freefall bombs and munitions and future weapon systems training.

TARGETING THE ACQUISITION OF THOUSANDS OF ACRES OF FOREST, THE NEW JERSEY CONSERVATION FOUNDATION WILL HELP THE AIR FORCE PROTECT SURROUNDING RESIDENTS FROM THE CONSTANT THREAT OF WILDFIRE AND CONDUCT PRESCRIBED FIRE MANAGEMENT. ADDITIONALLY, BETTER FOREST MANAGEMENT WILL SUPPORT THE MANY FEDERALLY AND STATE-LISTED ANIMAL AND VEGETATIVE SPECIES FOUND IN THE PINELANDS AREA. ALTOGETHER, THIS PROJECT ALLOWS THE CONTINUED OPERATION OF WARREN GROVE RANGE AND MAINTAINS A QUALITY TRAINING ENVIRONMENT.

BENEFIT SUMMARY

COMMUNITY
• Coordinates with existing regional planning efforts, including a Joint Land Use Study
• Protects habitat for notable species
• Provides recreational benefits for area residents

MILITARY
• Protects on-installation training capacity
• Prevents the loss of available training days

KEY PARTNERS
• New Jersey Conservation Foundation
• New Jersey Green Acres Program
• New Jersey Pinelands Commission

FAST FACTS THROUGH 30 SEP 2019
» Acres preserved: 179
» Transactions conducted: 5
» Total funds expended: $400 thousand
» Project status: In Progress

CONTACT
Public Affairs Office
(609) 761-6259

For more information about REPI, please see http://www.repi.mil.