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Map Production for the Paleoindian Archaeology and Late Pleistocene/Early Holocene Shorelines on DoD Installations Project

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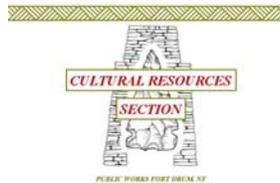
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ABSTRACT

This report details the Geographic Information Systems (GIS) methods and data employed for preparing digital maps that comprise part of the Paleoindian Archaeology and Late Pleistocene/Early Holocene Shorelines on Department of Defense (DoD) Installations project, an initiative sponsored by the Legacy Resource Management Program, as Legacy Project No. 05-260. All mapping was performed using ESRI ArcMap software (versions 9.0 and 9.1) with the Spatial Analyst extension. Maps produced include National Map of Potential Paleoindian Sites on Military Bases, Glacial Lake Fort Ann at USMA WestPoint, NY, Paleolakes at New York-Vermont Border, Glacial Lakes Warren and Wayne, Ohio, Glacial Lake Bonneville (Gilbert Stage), Utah and Glacial Lake Atna, Alaska. Advantages and limitations of the existing maps and digital data for use in making inventory and management decisions by DoD cultural resource managers are discussed. Recommendations for future work are also included.

INTRODUCTION

The Paleoindian Archaeology and Late Pleistocene/Early Holocene Shorelines on Department of Defense (DoD) Installations project maps were developed to aid DoD cultural resource managers identifying potential locations of sites that might yield evidence of Paleomaritime or aquatic culture. The primary product is the reference map, National Map of Potential Paleoindian Sites on Military Bases which uses a single criterion and simple GIS analysis to demonstrate such potential. Supplemental maps of specific bases and varied geographic regions illustrate this potential with additional data and more refined and complex analyses. What follows describes the GIS techniques and datasets employed to generate the maps.

BACKGROUND AND REFERENCE DATA

All the project maps (except for the national map) show topographic relief by inclusion of a hillshade layer. Hillshades were created with digital elevation model (DEM) rasters using ArcMap and the Spatial Analyst extension. Extant water features are pictured on all the maps and were derived from three different hydrography datasets. Selection was determined by the scale of the individual map. Because of the sensitive nature of some of the thematic data (military base and archaeological site locations), political boundaries were not shown at any finer resolution than state borders. Roads, place-names and other location-identifying features were excluded from the maps for the same reason.

THEMATIC DATA

The quality of glacial geological data and degree of research varies widely across the United States. As a result, two distinct processes were needed to produce the glacial lake shorelines shown on these maps. These are outlined in the following descriptions of methods and data for each

individual map. Each glacial lake level illustrated is believed to have existed just before or contemporaneous with Paleoindian occupation. Where possible, Paleoindian site locations were obtained from existing GIS data inventories. Randomized one-mile-diameter buffers of actual site locations are shown for illustration only to prevent unlawful excavation and harm. Military installation base polygon and point data was first obtained from the Center for Advanced Spatial Technologies (CAST) in Arkansas. On inspection of the dataset in ArcMap with aerial imagery and USGS 1:24,000 topographic digital raster graphics (DRGs), it was discovered that many of the base boundaries did not correspond accurately with these other reference sources or were misaligned in some other way. This dataset, though more than suitable for its original purpose (to illustrate a generalized map of military installation locations across the continental United States) was considered inadequate for spatial analysis and was abandoned for use in this project. Instead, two polygon datasets of military base boundaries were extracted from ESRI ArcGIS landmark data: 1) regional bases and 2) local military bases. A third polygon dataset, cross-referenced to the CAST Air Guard Support (AGS) military sites, was extracted from ESRI ArcGIS airport data. Five AGS locations – Wellesley, Coventry, Orange, Roslyn and Garland – could not be confirmed through any other sources (imagery, DRGs, ESRI data) and were retained in a separate polygon layer. In ArcMap, using the Append Tool, these four polygon datasets were combined into one and used for analysis. Appendix 1 contains the names of these military bases listed in alphabetical order.

Additionally, a point file of military base locations was extracted from ESRI ArcGIS data. To adjust for the lack of actual boundary information, an arbitrary buffer of five hundred meters was applied to these points to allow for a more meaningful, if not more accurate, analysis in the GIS. Appendix 2 contains a list of these installations in alphabetical order. It is likely that the use

of both polygon and point datasets in the GIS analysis introduced some slight error because of duplication, but prevented errors of exclusion.

Of the 871 military properties included in the analysis (Table 1), some 517 (59.4%) were shown to have high potential for containing Paleoindian archaeological sites associated with Late Pleistocene/Early Holocene water features, while the remaining 354 properties (40.6%) had low potential. These figures demonstrate the overwhelming potential that U.S. military installations have future testing of the Paleomaritime hypothesis.

NATIONAL MAP OF POTENTIAL PALEOINDIAN SITES ON MILITARY BASES (MAP 1)

Though the simplest map in terms of presentation and GIS analysis, the National Map of Potential Paleoindian Sites on Military Bases proved to be the most complex and difficult to produce. Issues with the military base installation datasets have been previously discussed. Digital Late Pleistocene and Early Holocene waterborne deposit data were derived from a surficial geology dataset for the Eastern and Central United States (Table 2). It was only the military base locations within this region that were subjected to the GIS analysis outlined below. The United States Geological Survey (USGS) is compiling a digital surficial geological coverage for the coterminous United States, but it will not be finalized nor available for some time (Stoeser 2006, personal communication). The potential of the military bases in the western states to yield evidence of Paleomaritime or aquatic culture was based on visual inspection of various USGS surficial geology paper maps and documented Paleoindian site locations. It is also likely that the potential for Paleoindian sites cannot be determined only through the analysis of surficial deposits and at this scale. On the National Map of Potential Paleoindian Sites on Military Bases, for example, West

Table 1. Frequency of High and Low Potential by DoD Service.		
Service	Potential	Frequency
Air Force	High	116
	Low	41
Air Force Reserve	Low	4
Air National Guard	High	49
	Low	58
Army	High	134
	Low	107
Army National Guard	High	37
	Low	31
Army Reserve	High	6
	Low	6
Coast Guard	High	27
	Low	13
DoD	High	5
	Low	2
DoD FUDS	Low	2
DoE	High	1
FUDS	High	1
Marines	High	14
	Low	4
Navy	High	82
	Low	54
Navy Reserve	High	3
	Low	2
Other	High	42
	Low	30
Summary		
Potential	Total	% of Total
High	517	59.4%
Low	354	40.6%
Total	871	100.0%

Table 2. Late Pleistocene/Early Holocene Surficial Deposits used in GIS analysis for determining Potential for Paleomaritime or Aquatic Sites on U.S. Military Bases

<p>Slack-water lake deposits and alluvium of late Wisconsin age</p> <p>Silt and clay of Holocene age</p> <p>Sheetwash alluvium of Holocene and late Wisconsin age</p> <p>Sand of Holocene and late Pleistocene age</p> <p>Sand of Holocene and Pleistocene age</p> <p>Sand and silt of Holocene and late Wisconsin age</p> <p>Other lake deposits of late Pleistocene age</p> <p>Inland deposits of Holocene and late Wisconsin age</p> <p>Glaciomarine deposits of late Wisconsin age</p> <p>Glaciofluvial (outwash) deposits of late Wisconsin and Holocene (?) age</p> <p>Glacial and postglacial lake deposits of Holocene and late Wisconsin age</p> <p>Fan alluvium of Holocene and late and middle Pleistocene age</p> <p>Coastal-plain marine deposits of late and middle Pleistocene age</p> <p>Coastal-plain marine deposits of Holocene age</p> <p>Coastal deposits of Holocene and late Wisconsin age</p> <p>Coastal deposits of Holocene age</p> <p>Channel and floodplain alluvium of late and middle Pleistocene age</p> <p>Channel and floodplain alluvium of Pleistocene age</p> <p>Channel and floodplain alluvium of Holocene, Pleistocene, and Pliocene age</p> <p>Channel and floodplain alluvium of Holocene and late and middle Pleistocene age</p> <p>Channel and floodplain alluvium of Holocene and late Wisconsin age</p> <p>Channel and floodplain alluvium of Holocene and Pleistocene age</p> <p>Beach deposits of Holocene and late Pleistocene age</p> <p>Beach deposits of Holocene age</p> <p>Alluvial, outwash, ice-contact, and glacial-lake deposits of Holocene and late Wisconsin</p>
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Point is represented as having lower potential for sites. However, one of the supplemental maps for this project, Glacial Lake Fort Ann at West Point, based on regionally specific research, shows high potential for the installation.

In ArcMap, the two military base layers were added and a new field called “Potential” was created in each of their attribute tables. The Early Holocene/Late Pleistocene surficial deposits dataset was also added and a simple spatial analysis was performed using the “Select by Location” tool.

Features from both military base layers that intersected with features from the surficial deposit layer were selected. The “Potential” attribute table field of the selected military bases was calculated as “High;” the unselected as “Low.” The military bases were then symbolized by category as either “High” or “Low” potential.

GLACIAL LAKE FORT ANN AT WESTPOINT (MAP 2)

Lake Fort Ann glacial lake level models were created using ArcMap 9.0 GIS software, PowerBasic programming software, and DEM data provided by the USGS. Two different sets of elevation data were manipulated separately and entered into a PowerBasic program. The program, designed to convert USGS ASCII DEM files into ESRI shapefiles based on estimated elevation and latitudinal slope of glacial lake levels, produced two possible Lake Fort Ann shorelines.

Though no Paleoindian sites are reported near West Point, a distributional study (Schackne 2005) noted a relationship between Paleoindian Period sites and Lake Fort Ann shorelines, indicating the probable importance of the position of shorelines for the prediction, protection, and management of early prehistoric cultural resources. The chronologies on which the two Lake Fort Ann models are based rely on the radiocarbon dating of microfossils in lacustrine sediments and/or in thermohaline circulation data that record periods of freshwater runoff. Combined with local markers such as remnant deltas and terraces, the dates provide a record of lake drainage. In both versions some deltas located between the Lake Fort Ann shoreline and the modern Hudson River shoreline cannot be made to fit into either model; they may be signs of intermediate shorelines, suggesting the early Hudson River continued to change during the Paleoindian Period and later. The higher-elevation shoreline (based on data from Gordon Connally and Donald Cadwell [2005]) belongs to a model of Lake Fort Ann believed to have drained around 13,140 years B.P.; the lower

elevation shoreline (based on data from Robert Dineen [in press]) belongs to a model of Lake Fort Ann thought to have drained around 12,240 years B.P.

PALEOLAKES AT THE NEW YORK-VERMONT BORDER (MAP 3)

Models of the Champlain Sea at the Kent Phase, 13,200 years B.P., and at the Burlington Phase, 12,500 years B.P., were developed using the same method described above, and were supplied in ESRI shapefile format courtesy of Allen Hathaway, as published in the 2003 New York State Museum (NYSM) *Geoarchaeology of Landscapes in the Glaciated Northeast* (Frink and Hathaway 2003). The effects of possible east-west sloping or glacial recession isostatic rebound forebulge were not considered when these models were originally produced. However, it is likely the impact of the east-west issue is minimal in the Champlain Valley, and the forebulge effect is rather short-term in relation to the length of the lake phases themselves (Hathaway 2006, personal communication). Vermont Paleoindian isolate locations, digitized on-screen in ArcMap, are after Loring (1980) and the coordinates of the Pleistocene elk remains were obtained from the NYSM site files.

GLACIAL LAKE BONNEVILLE (GILBERT STAGE), UTAH (MAP 4)

As only a single elevation of the relict shoreline was available (4,275 feet above mean sea level at Antelope Island in the Great Salt Lake, Utah) a much more rudimentary method was employed to produce the model of Glacial Lake Bonneville at the Gilbert Stage, 12,800-11,600 years B.P., than that previously described to produce the Glacial Lake Fort Ann and Champlain Sea models. A DEM raster of Utah and surrounding states was added to ArcMap. Using the Spatial Analyst extension, the DEM was reclassified into two classes, the first class representing the elevation of the relict shoreline. This reclassified raster was then converted to an ESRI polygon

shapefile. All the polygons in the second classification were deleted, leaving the glacial lake model as shown on the map. Additionally, the geographic coordinates of known obsidian outcroppings were obtained from the Northwest Research Obsidian Studies Laboratory in Oregon. Brown's Bench and Topaz Mountain obsidian, two exotic lithic types found at Paleoindian sites at Dugway Proving Ground (DPG), were digitized and incorporated into the map with Paleoindian site locations from the DPG site inventory.

GLACIAL LAKES WARREN AND WAYNE, OHIO (MAP 5)

The four phases of Glacial Lakes Warren and Wayne, 13,000-12,000 years B.P.(Hanson 1999), were produced using the same method as described for Glacial Lake Bonneville at the Gilbert Stage. Late Pleistocene/Early Holocene surficial deposits are also represented on this map. An ESRI shapefile of Paleoindian site locations was supplied by the Ohio Historic Preservation Office. This dataset was reduced by eliminating sites identified as Paleoindian through the presence of "Stringtown" or "Stemmed lanceolate" points only. A number of these sites, originally assigned temporally to a Late Paleoindian tradition, now appear to be more likely a Late Archaic phenomenon (Eberhard 2006, personal communication). These sites were not included on the final version of the map.

GLACIAL LAKE ATNA, ALASKA (MAP 6)

Though no digital dataset of Late Pleistocene/Early Holocene surficial deposits exists for Alaska, a visual inspection of surficial geological maps suggests the military installations depicted on this map have high potential for evidence of Paleomaritime or aquatic activity. Proximity to Glacial Lake Atna, 13,000-9,000 B.P. (model created by the same method described earlier) and the "densest concentration of archaeological sites in the Subartic, many of which have been identified as Paleoindian" (Jangala 2006, personal communication; see also Jangala and Keating

2004) warranted inclusion of this map in the Paleoindian Archaeology and Late Pleistocene/Early Holocene Shorelines on DoD Installations project.

RECOMMENDATION FOR FUTURE WORK

One specific recommendation for future work is refining the National Map of Potential Paleoindian Sites on Military Bases as soon as a completed version of the USGS digital surficial geological coverage of the entire United States is made available. Doing so would not only allow for an uniform analysis of all U.S. military installations (excluding Hawaii and Alaska) for site potential, but would result in a more intuitive, easily interpreted map in which Late Pleistocene/Early Holocene deposits could be displayed with base locations and hydrography at a national scale.

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<http://seamless.usgs.gov/>

APPENDIX 1. Potential for Paleoindian Sites and Paleomaritime/Aquatic Associations on U.S. Military Installations—Polygon Dataset

Installation Name	County	State	Potential	Service
Aberdeen Proving Ground	Harford	MD	High	Army
Adak Naval Air Station	Aleutians West	AK	High	Navy
Alameda Naval Air Station	Alameda	CA	High	Navy
Altus Air Force Base	Jackson	OK	High	Air Force
Anacostia Naval Station	District of Columbia	DC	High	Navy
Anniston Army Depot	Calhoun	AL	Low	Army
Army Reserve Center	Douglas	KS	Low	Army
Arnold Air Force Base	Franklin	TN	Low	Air Force
Atlanta Naval Air Station	Cobb	GA	Low	Navy
Atlantic City International	Atlantic	NJ	High	Air National Guard
Aviation Training Center (Mobile)	Mobile	AL	Low	Coast Guard
Avon Park Air Force Station	Polk	FL	Low	Air Force
Bangor Air Guard Station	Penobscot	ME	High	Air National Guard
Bangor International Airport	Penobscot	ME	High	Air National Guard
Bangor Naval Sub Base	Kitsap	WA	High	Navy
Barbers Point Naval Air Station	Honolulu	HI	Low	Navy
Barksdale Air Force Base	Bossier	LA	High	Air Force
Barnes Map Air Guard Station	Hampden	MA	Low	Air National Guard
Barnes Municipal Airport	Hampden	MA	Low	Air National Guard
Barstow MC Logistics Base	San Bernardino	CA	High	Marines
Bayonne Military Ocean Terminal (MOTBY) BRAC 1999	Hudson	NJ	Low	Army
Beale Air Force Base	Yuba	CA	High	Air Force
Beaufort Naval Hospital	Beaufort	SC	Low	Navy
Beckley Airport A.G.S.	Clark	OH	Low	Air National Guard
Birmingham International Airport	Jefferson	AL	Low	Air National Guard
Birmingham Map Air Guard Station	Jefferson	AL	Low	Air National Guard
Bolling Air Force Base	District of Columbia	DC	High	Air Force
Boston Support Center (South Boston Support Activity)	Suffolk	MA	High	Army Reserve
Bowman Field	Jefferson	KY	Low	Other
Bradley Airport Air Guard Station	Hartford	CT	High	Air National Guard
Bradley International Airport	Hartford	CT	High	Air National Guard
Bremerton Naval Hospital	Kitsap	WA	High	Navy
Brooklyn Air Station (Bennett)	Kings	NY	High	Coast Guard
Brooklyn Support Activity (Brooklyn NS CSO)	Kings	NY	Low	Navy
Brooks Air Force Base	Bexar	TX	High	Air Force
Brunswick Naval Air Station	Cumberland	ME	High	Navy
Buckley Air Natl Guard Base	Arapahoe	CO	Low	Army National Guard
Burlington International Airport	Chittenden	VT	High	Air National Guard

Installation Name	County	State	Potential	Service
California Air Natl Guard	Ventura	CA	High	Air National Guard
Camp Bonneville Military Res	Clark	WA	High	Army
Camp Bullis	Bexar	TX	Low	Army
Camp Edwards Army Natl Guard	Barnstable	MA	High	Army National Guard
Camp H.M. Smith	Honolulu	HI	Low	Marines
Camp Lejeune MC Base	Onslow	NC	High	Marines
Camp Lejeune Naval Base	Onslow	NC	High	Navy
Camp Mabry Mil Resv (Natl Gd)	Travis	TX	Low	Army National Guard
Camp Mckean Naval Rec Center	Kitsap	WA	High	Navy
Camp Murray Washington Natl Gu	Pierce	WA	High	Army National Guard
Camp Pendleton Marine Co Base	San Diego	CA	High	Marines
Camp Perry Air Guard Station	Ottawa	OH	High	Air National Guard
Camp Seven Mile Military Res	Spokane	WA	High	Army
Camp Smith New York State Military Reservation	Multiple Counties	NY	Low	Army National Guard
Camp Williams Military Reservation	Multiple Counties	UT	High	Army National Guard
Camp Williams State Military Reservation	Salt Lake	UT	High	Army National Guard
Cannon Air Force Base	Curry	NM	High	Air Force
Cape Lisburne AFS	North Slope	AK	Low	Air Force
Cape Romanzof AFS	Wade Hampton	AK	High	Air Force
Capital Map Air Guard Station	Sangamon	IL	Low	Air National Guard
Capital Municipal Airport	Sangamon	IL	High	Air National Guard
Carlisle Barracks	Cumberland	PA	Low	Army
Cecil Field Naval Air Station	Clay	FL	Low	Navy
Central Intelligence Agency	Fairfax	VA	Low	Other
Channel Island Air Guard Station	N/A	CA	High	Air National Guard
Charleston AFB	Penobscot	ME	Low	Air Force
Charleston Air Force Base	Charleston	SC	Low	Air Force
Charleston C.G. Base	Charleston	SC	Low	Coast Guard
Charleston Naval Hospital	Charleston	SC	Low	Navy
Charleston Naval Weapons Station	Berkeley	SC	High	Navy
Charleston Shipyard and Station	Charleston	SC	High	Navy
Charlotte/Douglas International	Mecklenburg	NC	Low	Air National Guard
Charlotte-Douglas Airport A.G.S.	Mecklenburg	NC	Low	Air National Guard
Cherry Point M.C.A.S.	Craven	NC	High	Marines
Cheyenne Airport A.G.S.	Laramie	WY	High	Air National Guard
Cheyenne Mountain Afb	El Paso	CO	High	Air Force
Chicago O Hare International Airport	Multiple Counties	IL	Low	Other
Childersburg Army Ammo Plant	Multiple Counties	AL	Low	Army
China Lake Naval Weapons Ctr	Multiple Counties	CA	High	Navy

Installation Name	County	State	Potential	Service
Clear Air Force Station	Denali	AK	High	Air Force
Cobb County-Mc Collum Field	Cobb	GA	Low	Other
Columbus Air Force Base	Lowndes	MS	High	Air Force
Concord Naval Weapons Station	Contra Costa	CA	High	Navy
Corpus Christi Naval Air Station	Nueces	TX	Low	Navy
Coventry A.G.S.	Kent	RI	Low	Air National Guard
Craig AFB	Dallas	AL	High	Air Force
Cutler Naval Radio Station	Washington	ME	High	Navy
Dallas Naval Air Station (Closed)	Dallas	TX	Low	Navy
Dam Neck Combat Training Ctr (FCTCLANT Dam Neck)	Virginia Beach	VA	High	Navy
Dane County Regional-Truax Field	Dane	WI	High	Air National Guard
Dannelly Field Air Guard Station	Montgomery	AL	Low	Air National Guard
Davis Monthan Air Force Base	Pima	AZ	High	Air Force
Defense General Supply Ctr	Chesterfield	VA	High	DoD
Defense Personnel Support Ctr	Philadelphia	PA	High	Other
Des Moines International Aiport	Polk	IA	Low	Other
Detroit Arsenal	Macomb	MI	High	Army
Dobbins Air Force Base	Cobb	GA	Low	Air Force
Dothan	Dale	AL	Low	Other
Douglas Army Reserve Ctr	Salt Lake	UT	High	Army
Downtown Airpark	Oklahoma	OK	High	Other
Dugway Proving Ground	Multiple Counties	UT	High	Army
Duke Field	Okaloosa	FL	High	Other
Duluth Airport Air Guard Station	St. Louis	MN	Low	Air National Guard
Duluth International Airport	St. Louis	MN	High	Other
Dyess Air Force Station	Taylor	TX	High	Air Force
Earle Naval Weapons Station	Monmouth	NJ	Low	Navy
East Park Naval Reserve	Kitsap	WA	High	Navy
Eastern WV Regional/Shepherd Field	Berkeley	WV	Low	Air National Guard
Eatons Neck C.G. Station (North)	N/A	NY	Low	Coast Guard
Edwards Air Force Base	San Bernardino	CA	High	Air Force
Eglin Air Force Base	Multiple Counties	FL	High	Air Force
Eielson Air Force Base	Fairbanks North Star	AK	High	Air Force
El Centro Naval Air Fac	Imperial	CA	High	Navy
El Toro Marine Corps Air Station	Orange	CA	High	Marines
Ellington Field	Harris	TX	Low	Air National Guard
Ellsworth Air Force Base	Pennington	SD	High	Air Force
Elmendorf AFB	Anchorage	AK	High	Air Force
England AFB	Rapides	LA	High	Air Force
Everett Naval Station	Snohomish	WA	High	Navy
Fairchild Air Force Base	Spokane	WA	High	Air Force
Falcon Air Force Base	El Paso	CO	High	Air Force
Fallon Naval Air Station	Churchill	NV	High	Navy

Installation Name	County	State	Potential	Service
Fermi National Accelerator Lab	DuPage	IL	High	DoE
Fitzsimons Army Medical Ctr	Adams	CO	Low	Army
Forbes Field Air Guard Station	Shawnee	KS	Low	Air National Guard
Fort A.p. Hill Military Res	Essex	VA	Low	Army
Fort Belvoir Corps Of Engineer	Fairfax	VA	Low	Army
Fort Belvoir Us Army Rsvn	Fairfax	VA	High	Army
Fort Benning	Multiple Counties	GA	High	Army
Fort Benning Military Res	Multiple Counties	AL	High	Army
Fort Bliss	El Paso	TX	High	Army
Fort Bragg	Harnett	NC	Low	Army
Fort Campbell	Stewart	TN	Low	Army
Fort Carson	Fremont	CO	High	Army
Fort Chaffee	Multiple Counties	AR	High	Army
Fort Custer Military Res	Multiple Counties	MI	High	Army
Fort Derussey	Honolulu	HI	Low	Army
Fort Detrick	Frederick	MD	Low	Army
Fort Devens	Multiple Counties	MA	High	Army
Fort Dix Military Reservation	Multiple Counties	NJ	High	Army
Fort Drum	Multiple Counties	NY	High	Army
Fort Eustis	Newport News	VA	High	Army
Fort Fisher AFS Military Re	N/A	NC	High	Army
Fort George Meade	Anne Arundel	MD	Low	Army
Fort Gillem	Clayton	GA	Low	Army
Fort Gordon	Multiple Counties	GA	Low	Army
Fort Greely	Denali	AK	High	Army
Fort Hood	Bell	TX	High	Army
Fort Huachuca	Cochise	AZ	High	Army
Fort Hunter Liggett	Monterey	CA	High	Army
Fort Indiantown Gap	Lebanon	PA	Low	Army
Fort Irwin	San Bernardino	CA	High	Army
Fort Jackson	Richland	SC	Low	Army
Fort Knox	Multiple Counties	KY	High	Army
Fort Lawton Military Reserve	King	WA	High	Army
Fort Leavenworth	Multiple Counties	KS	High	Army
Fort Lee	Prince George	VA	High	Army
Fort Leonard Wood Military Res	Texas	MO	High	Army
Fort Lewis	Multiple Counties	WA	High	Army
Fort Macarthur (Lower Reservat	Los Angeles	CA	High	Army
Fort McClellan	Calhoun	AL	Low	Army
Fort McCoy	Monroe	WI	High	Army
Fort McNair	District of Columbia	DC	High	Army
Fort Mcpherson	Fulton	GA	Low	Army
Fort Miley	San Francisco	CA	High	Army
Fort Miller	Essex	MA	Low	Army
Fort Monmouth	Monmouth	NJ	High	Army
Fort Monroe	Hampton	VA	High	Army

Installation Name	County	State	Potential	Service
Fort Myer	Arlington	VA	Low	Army
Fort Pickering	Essex	MA	Low	Army
Fort Pickett	Lunenburg	VA	Low	Army
Fort Polk	Vernon	LA	High	Army
Fort Riley	Riley	KS	Low	Army
Fort Ritchie	Washington	MD	Low	Army
Fort Rosecrans Military Rsv	San Diego	CA	High	Army
Fort Rucker	Dale	AL	High	Army
Fort Sam Houston	Bexar	TX	High	Army
Fort Shafter	Honolulu	HI	Low	Army
Fort Sill Military Reservation	Comanche	OK	High	Army
Fort Smith Map Air Guard Station	Sebastian	AR	High	Army
Fort Smith Regional	Sebastian	AR	High	Army
Fort Stewart	Multiple Counties	GA	High	Army
Fort Story	Virginia Beach	VA	High	Army
Fort Trumbell U.s.n.	New London	CT	Low	Army
Fort Wainwright	Multiple Counties	AK	High	Army
Fort Wayne International	Allen	IN	Low	Army
Fort Wolters Military Res	Palo Pinto	TX	Low	Army
Four Lakes Air Guard Station	Spokane	WA	High	Air National Guard
Fresno Air Term Air Guard Station	Fresno	CA	High	Air National Guard
Ft Wayne Airport A.G.S.	Allen	IN	Low	Air National Guard
Galena AFS	Yukon-Koyukuk	AK	High	Air Force
Garland A.G.S.	Dallas	TX	Low	Air National Guard
Gen Mitchell Airport AFRS	Milwaukee	WI	Low	Air Force Reserve
Gentile Air Force Station	Montgomery	OH	Low	Air Force
Georgia National Gaurd	Fulton	GA	Low	Army National Guard
Gila Bend Air Force Station	Maricopa	AZ	High	Air Force
Goodfellow Air Force Base	Tom Green	TX	High	Air Force
Governors Island Support Center	N/A	NY	Low	Coast Guard
Grand Forks Air Force Base	Grand Forks	ND	High	Air Force
Grand Isle C.G. Station	N/A	LA	High	Coast Guard
Great Falls Airport A.G.S.	Cascade	MT	High	Air National Guard
Great Lakes Naval Training Ctr	Lake	IL	High	Navy
Greater Peoria Regional Airport	Peoria	IL	Low	Air National Guard
Griffiss Air Force Base	Oneida	NY	High	Air Force
Gulfport-Biloxi Air Guard Station	Harrison	MS	Low	Air National Guard
Gulfport-Biloxi Rgnl	Harrison	MS	Low	Air National Guard
Gunter AFS	Montgomery	AL	High	Air Force
Hall Air Guard Station	Dale	AL	Low	Air National Guard
Hammond Air Guard Station	Tangipahoa	LA	Low	Air National Guard

Installation Name	County	State	Potential	Service
Hammond Municipal (ANG Communications Unit)	Tangipahoa	LA	Low	Air National Guard
Hanscom Air Force Base	Middlesex	MA	High	Air Force
Harrisburg International Airport	Dauphin	PA	Low	Air National Guard
Harrisburg-Olmstead Airport AG	Dauphin	PA	Low	Other
Harry Diamond Labs	Montgomery	MD	Low	Army
Hector International Airport	Cass	ND	High	Air National Guard
Henderson Hall Corps Hdqtrts	Arlington	VA	Low	Marines
Hickam Air Force Base	Honolulu	HI	Low	Air Force
Hill Air Force Base	Box Elder	UT	High	Air Force
Holloman Air Force Base	Otero	NM	High	Air Force
Hulmhn Reg Airport A.G.S.	Vigo	IN	Low	Air National Guard
Hunter Army Airfield	Chatham	GA	Low	Army
Hurlburt AFB Field	Okaloosa	FL	Low	Air Force
Indian Head Naval Ordnance Station	Charles	MD	High	Navy
Indian Island Us Navy Reserves	Jefferson	WA	High	Navy
Iowa Army Ammunition Plant	Multiple Counties	IA	High	Army
Jackson Park Naval Reservation	Kitsap	WA	High	Navy
Jacksonville International (FL ANG)	Duval	FL	Low	Air National Guard
Jacksonville Naval Air Station	Duval	FL	Low	Navy
Joe Foss Field	Minnehaha	SD	High	Air National Guard
John F Kennedy Space Center	Brevard	FL	High	Other
Jonesport C. G. Station (West Jo	N/A	ME	Low	Coast Guard
K. I. Sawyer AFB	Marquette	MI	High	Air Force
Kaneohe Bay M.C.A.S.	Honolulu	HI	Low	Marines
Kansas National Guard	Douglas	KS	Low	Army National Guard
Keesler Air Force Base	Harrison	MI	High	Air Force
Kellogg Reg Airport A.G.S.	Calhoun	MI	High	Air National Guard
Kelly Air Force Base	Bexar	TX	High	Air Force
Kelly Support Facility	Allegheny	PA	Low	Army
Ketchikan C.G. Base	Ketchikan Gateway	AK	Low	Coast Guard
Key Field Air Guard Station	Lauderdale	MS	Low	Air National Guard
Key Field ANG Base	Lauderdale	MS	Low	Air National Guard
Key West Naval Air Station	N/A	FL	High	Navy
King Salmon AFS	Bristol Bay	AK	High	Air Force
Kings Bay Naval Sub Base	Camden	GA	High	Navy
Kingsley Field Air Guard Station	Klamath	OR	Low	Air National Guard
Kingsville Naval Air Station	Kleberg	TX	High	Navy
Kirtland Air Force Base	Bernalillo	NM	High	Air Force
Kulis Air Guard Base	Anchorage	AK	High	Air National Guard
La Porte Municipal Airport	Harris	TX	Low	Other

Installation Name	County	State	Potential	Service
Lackland Air Force Base	Bexar	TX	High	Air Force
Lakehurst Naval Air Ctr	Ocean	NJ	High	Navy
Lambert-St Louis Air Natl Grd	St. Louis	MO	Low	Air National Guard
Lambert-St Louis International	St. Louis	MO	High	Air National Guard
Langley Air Force Base	Hampton	VA	Low	Air Force
Laughlin Air Force Base	Val Verde	TX	High	Air Force
Lawrence J Timmerman Airport	Milwaukee	WI	Low	Other
Lemoore Naval Air Station	Fresno	CA	High	Navy
Letterkenny Army Depot	Franklin	PA	Low	Army
Lincoln Municipal	Lancaster	NE	Low	Air National Guard
Little Creek Naval Base	Virginia Beach	VA	High	Navy
Little Rock Air Force Base	Pulaski	AR	Low	Air Force
Long Beach Naval Station	Los Angeles	CA	High	Navy
Long Branch School	Arlington	VA	Low	Other
Loring AFB	Aroostook	ME	Low	Air Force
Los Angeles Air Force Base	Los Angeles	CA	High	Air Force
Louisiana Army Ammunition Plant	Bossier	LA	High	Army
Louisville International-Standiford Field	Jefferson	KY	High	Air National Guard
Louisville Naval Ordnance Station	Jefferson	KY	High	Navy
Lsv	Clark	NV	High	Other
Lualualei Naval Radio Station	Honolulu	HI	Low	Navy
Lualualei Naval Resv	Honolulu	HI	Low	Navy Reserve
Luke Air Force Base	Maricopa	AZ	High	Air Force
Lyndon B Johnson Space Center	Harris	TX	Low	Other
Macdill Air Force Base	Hillsborough	FL	Low	Air Force
Makah AFS	Clallam	WA	High	Air Force
Malmstrom Air Force Base	Cascade	MT	High	Air Force
Mansfield Lahm Airport A.G.S.	Richland	OH	Low	Air National Guard
Mansfield Lahm Municipal Airport	Richland	OH	Low	Air National Guard
Marine Corps Barracks	District of Columbia	DC	High	Marines
Marine Corps Logistics Base	Dougherty	GA	High	Marines
Marine Corps Recruit Depot	Beaufort	SC	High	Marines
Martin State Airport	Baltimore	MD	High	Air National Guard
Maxwell Air Force Base	Montgomery	AL	High	Air Force
Maxwell Storage Annex	Montgomery	AL	High	Air Force
Mayport Naval Station	Duval	FL	High	Navy
Mc Ghee Tyson	Blount	TN	Low	Air National Guard
Mcalester Ammunitions Depot	Pittsburg	OK	High	Army
Mchord Air Force Base	Pierce	WA	High	Air Force
Mcclellan Air Force Base	Sacramento	CA	High	Air Force
Mcconnell Air Force Base	Sedgwick	KS	Low	Air Force
Mcentire Air Guard Base	Richland	SC	Low	Air National

Installation Name	County	State	Potential	Service
				Guard
Mcguire Air Force Base	Burlington	NJ	Low	Air Force
Memphis Airport Air Guard Station	Shelby	TN	Low	Air National Guard
Memphis Defense Depot	Shelby	TN	Low	Army
Memphis International Airport	Shelby	TN	Low	Air National Guard
Memphis Naval Air Station	Shelby	TN	High	Navy
Meridian Naval Air Station	Lauderdale	MS	Low	Navy
Military Installation (Afognak Island Coastal Defense Site)	Kodiak Island	AK	High	FUDS
Minneapolis-St Paul International/Wold-	Hennepin	MN	High	Air National Guard
Minot Air Force Base	Ward	ND	High	Air Force
Miramar Naval Air Station	San Diego	CA	High	Navy
Montgomery Rgnl (Dannelly Field)	Montgomery	AL	Low	Air National Guard
Moody Air Force Base		GA	Low	Air Force
Mountain Home Air Force Base	Elmore	ID	High	Air Force
Murphy Dome AFS	Fairbanks North Star	AK	High	Air Force
Myrtle Beach AFB	Horry	SC	High	Air Force
N Smithfield Air Guard Station	Providence	RI	Low	Air National Guard
Nas Fort Worth Joint Resv Base	Tarrant	TX	High	Navy Reserve
Nashville International	Davidson	TN	Low	Air National Guard
National Guard	Orange	CA	High	Army National Guard
National Guard Armory	Pearl River	MS	Low	Army National Guard
Naval Air Development Center	Bucks	PA	Low	Navy
Naval Aviation Depot	Duval	FL	Low	Navy
Naval Avionics Center	Marion	IN	Low	Navy
Naval Coastal Systems Center	Bay	FL	High	Navy
Naval Command Unit	Prince George's	MD	Low	Navy
Naval Construction Ctr	Harrison	MS	Low	Navy
Naval Education & Training Ctr	Newport	RI	Low	Navy
Naval Electronic Systems Ctr	St. Mary's	MD	High	Navy
Naval Observatory	District of Columbia	DC	Low	Navy
Naval Postgraduate School	Monterey	CA	High	Navy
Naval Research Laboratory	District of Columbia	DC	High	Navy
Naval Reservation	Los Angeles	CA	High	Navy
Naval Security Group Ctr	District of Columbia	DC	Low	Navy
Naval Surface Weapons Ctr	Montgomery	MD	Low	Navy
Naval Undersea Warfare Center	Kitsap	WA	High	Navy
Naval Weapons Center	Riverside	CA	High	Navy
Naval Weapons Support Ctr	Lawrence	IN	Low	Navy
Navy Aviation Supply Office	Philadelphia	PA	Low	Navy
Navy Ships Parts Control Ctr	Cumberland	PA	Low	Navy

Installation Name	County	State	Potential	Service
Navy Supply Corps School	Clarke	GA	Low	Navy
Navy-Marine Reserve Training C	Jefferson	AL	Low	Navy Reserve
Nellis Afb Bombing Range	Nye	NV	High	Air Force
New Castle County Airport	New Castle	DE	Low	Air National Guard
New Cumberland Army Depot	York	PA	Low	Army
New Hampshire National Guard	Merrimack	NH	High	Army National Guard
New London Naval Sub Base	New London	CT	Low	Navy
New Orleans Naval Air Station	Plaquemines	LA	High	Navy
New Orleans Naval Support	Orleans	LA	High	Navy
New River Marine Corps Air Station	Onslow	NC	High	Marines
Nike Tare	Fairbanks North Star	AK	High	Air Force
Nip	Duval	FL	Low	Other
Norfolk Naval Air Station	Multiple Counties	VA	High	Navy
Norfolk Naval Aviation Depot	Multiple Counties	VA	Low	Navy
Norfolk Naval Base	Multiple Counties	VA	Low	Navy
Norfolk Naval Shipyard	Multiple Counties	VA	Low	Navy
North Central State	Providence	RI	Low	Other
North Highlands Air Guard Station	Sacramento	CA	High	Air National Guard
North Island Naval Air Station	San Diego	CA	High	Navy
North Truro Afs (Closed)	Barnstable	MA	High	Air Force
Nw Naval Security Group Ctr	Multiple Counties	VA/NC	High	Navy
Oakland Army Base	Alameda	CA	High	Army
Oakland Naval Supply Ctr	Alameda	CA	High	Navy
Oceana N.a.s.	Virginia Beach	VA	Low	Navy
Offutt Air Force Base	Sarpy	NE	High	Air Force
Ogden Defence Depot	Weber	UT	High	DoD
Ohare Afb & Air National Guard	Cook	IL	Low	Air Force
Old Fort Boise Military Res	Ada	ID	High	Army
Olf Barin U.s. Naval Res	Baldwin	AL	Low	Navy
Orange A.G.S.	New Haven	CT	Low	Air National Guard
Orlando Naval Training Center	Orange	FL	Low	Navy
Otis Air National Guard Base	Barnstable	MA	High	Air National Guard
Pacific Fleet Training Ctr	San Diego	CA	High	Navy
Pacific Strategic Weapons Facility	Kitsap	WA	High	Navy
Pascagoula Naval Station	N/A	MI	High	Navy
Patrick Air Force Base	Brevard	FL	High	Air Force
Patuxent River Naval Air Station	St. Mary's	MD	High	Navy
Pearl Harbor Naval Shipyard	Honolulu	HI	Low	Navy
Pearl Harbor Naval Station	Honolulu	HI	Low	Navy
Pease Air Force Base	Rockingham	NH	High	Air Force
Pensacola Naval Air Station	Escambia	FL	Low	Navy
Pensacola Naval Hospital	Escambia	FL	Low	Navy
Peterson Air Force Base	El Paso	CO	High	Air Force
Philadelphia Naval Shipyard	Philadelphia	PA	High	Navy

Installation Name	County	State	Potential	Service
Phoenix Sky Harbor Airport A.G.S.	Maricopa	AZ	High	Air National Guard
Picatinny Arsenal	Morris	NJ	Low	Army
Pine Bluff Arsenal	Jefferson	AR	High	Army
Pittsburgh International Airport	Allegheny	PA	Low	Air National Guard
Plattsburgh Air Force Base	Clinton	NY	High	Air Force
Point Mugu Nas	Ventura	CA	High	Navy
Pope Air Force Base	Cumberland	NC	Low	Air Force
Port Austin Afs Reservation	Huron	MI	High	Air Force
Portland Airport Air Guard Station	Multnomah	OR	High	Air National Guard
Portland International Jetport	Cumberland	ME	High	Other
Portsmouth Naval Med Ctr	Portsmouth	VA	Low	Navy
Portsmouth Naval Shipyard	Portsmouth	VA	High	Navy
Presidio Of Monterey	Monterey	CA	High	Army
Price Support Ctr (Charles M. Price Support)	Madison	IL	High	Army
Pueblo Army Depot Activity	Pueblo	CO	High	Army
Puget Sound Naval Shipyard	Kitsap	WA	High	Navy
Quantico Marine Corps Base	Multiple Counties	VA	Low	Marines
Quonset State Airport	Washington	RI	High	Air National Guard
Quonset State Airport A.G.S.	Washington	RI	High	Air National Guard
Randolph Air Force Base	Bexar	TX	High	Air Force
Rector Field Airport A.G.S.	Cass	ND	High	Air National Guard
Red River Army Depot	Bowie	TX	Low	Army
Redstone Arsenal	Multiple Counties	AL	Low	Army
Reese Air Force Base	Lubbock	TX	High	Air Force
Reno Cannon Airport A.G.S.	Washoe	NV	High	Air National Guard
Richmond Airport Air Guard Station	Henrico	VA	Low	Air National Guard
Richmond International Airport AGS (BRAC)	Henrico	VA	Low	Air National Guard
Riv	Riverside	CA	High	Other
Rnd	Guadalupe	TX	High	Other
Robins Air Force Base	Houston	GA	Low	Air Force
Rock Island Arsenal	Rock Island	IL	High	DoD
Roslyn A.G.S.	Nassau	NY	Low	Air National Guard
Runkle Tactical Site	Coffee	AL	High	Other
S Weymouth Nas (Closed)	Norfolk	MA	Low	Navy
Sacramento Peak Upper Air Rsrsv	Otero	NM	High	Other
Salt Lake City Airport A.G.S.	Salt Lake	UT	High	Air National Guard
San Diego MC Recruit Depot (MCRD San Diego)	San Diego	CA	High	Marines
San Diego Naval Air Station	San Diego	CA	High	Navy
San Diego Naval Commun Station	San Diego	CA	High	Navy
San Diego Naval Medical Ctr	San Diego	CA	High	Navy
Santa Clara Naval Air Reserve	Santa Clara	CA	High	Navy

Installation Name	County	State	Potential	Service
Saufley Naval Landing Field	Escambia	FL	Low	Navy
Savanna Army Depot	Carroll	IL	High	Army
Savannah International Airport	Chatham	GA	Low	Air National Guard
Schenectady County (Schenectady Airport)	Schenectady	NY	High	Air National Guard
Schmids Lake	St. Clair	IL	High	Other
Schofield Barracks Mil Resv	Honolulu	HI	Low	Army
Scott Air Force Base	St. Clair	IL	High	Air Force
Selfridge Air Guard Base	Macomb	MI	High	Air National Guard
Seneca Army Depot	Seneca	NY	Low	Army
Seymour Johnson Afb	Wayne	NC	High	Air Force
Sharpe Army Depot	San Joaquin	CA	High	Army
Shaw AFB	Sumter	SC	Low	Air Force
Sheppard Air Force Base	Wichita	TX	Low	Air Force
Sierra Army Depot	Lassen	CA	High	Army
Sioux City Map Air Guard Station	Woodbury	IA	High	Air National Guard
Sioux Gateway Airport	Woodbury	IA	High	Air National Guard
South Portland C.G. Base	Cumberland	ME	High	Coast Guard
Southwest Harbor C.G. Base	Hancock	ME	Low	Coast Guard
Sparrevohn AFS	Bethel	AK	High	Air Force
Spokane Airport Air Guard Station	Spokane	WA	High	Air National Guard
Springfield-Beckley Municipal Airport	Clark	OH	Low	Air National Guard
Standiford Field Guard Station	Jefferson	KY	High	National Guard
Stanly County Airport	Stanly	NC	Low	Air National Guard
Stewart International Airport	Orange	NY	Low	Air National Guard
Stockton Naval Commun Station	San Joaquin	CA	High	Navy
Syracuse Hancock International	Onondaga	NY	High	Air National Guard
Tatalina AFS	Yukon-Koyukuk	AK	High	Air Force
Tem	Pierce	WA	High	Other
Tennessee Air National Guard	Davidson	TN	Low	Air National Guard
Terre Haute International-Hulman Regional Airport	Vigo	IN	Low	Air National Guard
The Francis S Gabreski Airport	Suffolk	NY	High	Air National Guard
The Pentagon	Arlington	VA	Low	DoD
Thomas Cloud Memorial Park	Montgomery	OH	Low	Other
Thompson Field Air Guard Station	Rankin	MS	High	Air National Guard
Tin City AFS	Nome	AK	Low	Air Force
Tinker Airforce Base	Oklahoma	OK	Low	Air Force
Tobyhanna Army Depot	Monroe	PA	Low	Army
Toledo Express Airport	Lucas	OH	High	Air National Guard

Installation Name	County	State	Potential	Service
Tooele Army Depot	Tooele	UT	High	Army
Tracy Defense Depot	San Joaquin	CA	High	DoD
Travis Air Force Base	Solano	CA	High	Air Force
Treasure Island Naval Station	N/A	CA	High	Navy
Tripler Army Medical Center	Honolulu	HI	Low	Army
Truax Field Air Guard Station	Dane	WI	High	Air National Guard
Tucson Airport Air Guard Station	Pima	AZ	High	Air National Guard
Tulsa Airport Air Guard Station	Tulsa	OK	Low	Air National Guard
Tulsa International Airport	Tulsa	OK	Low	Air National Guard
Tustin Marine Corps Air Station	Orange	CA	High	Marines
Twentynine Palms Mcag	San Bernardino	CA	High	Marines
Tyndall Air Force Base	Bay	FL	High	Air Force
U.S. Army Reserve Center	St. Louis City	MO	High	Army
U.S. Military Reservation- Jer	Oneida	NY	Low	Army
U.s.C.G. Academy	New London	CT	Low	Coast Guard
Umatilla Depot Activity	Umatilla	OR	High	Army
United States Army Reserve	Orleans	LA	High	Army Reserve
Us Air Force Academy	El Paso	CO	High	Air Force
Us Army Reserve Center	St. Louis City	MO	Low	Army Reserve
Us Army Rsrv Training Center	Bernalillo	NM	High	Army Reserve
Us Coast Guard	Fairfax	VA	High	Coast Guard
Us Coast Guard Station	Ventura	CA	High	Coast Guard
Us Marine Corp Recruit Depot	San Diego	CA	High	Marines
Us Marine Corps Air Station	Beaufort	SC	High	Air Force
Us Military Res (Natick Labs)	Middlesex	MA	High	Army
Us Military Reservation	Middlesex	MA	High	Army
Us Naval Academy	Anne Arundel	MD	Low	Navy
Us Naval Amphibious Base	San Diego	CA	High	Navy
Us Naval Reserve Training Ctr	Orleans	LA	High	Navy
Us Naval Weapons Station	Orange	CA	High	Navy
Us Soldiers & Airmens Home	District of Columbia	DC	Low	Other
Usn Construction Batln Ctr	Ventura	CA	High	Navy
Vance Air Force Station	Garfield	OK	Low	Air Force
Vandenberg Air Force Base	Santa Barbara	CA	High	Air Force
Verona Test Site (Verona Test Annex)	Oneida	NY	High	Air Force
Vint Hill Farms Station (BRAC 1993)	Fauquier	VA	Low	Army
Volunteer Army Ammunition Plan	Hamilton	TN	Low	Army
W K Kellogg	Calhoun	MI	High	Air National Guard
Walter Reed Army Medical Center	District of Columbia	DC	Low	Army
Warren Air Force Base	Laramie	WY	High	Air Force
Washington National Guard	Spokane	WA	High	Army National Guard
Washington Navy Yard	District of Columbia	DC	High	Navy

Installation Name	County	State	Potential	Service
Watervliet Arsenal	Albany	NY	High	Army
Wellesley A.G.S.	Middlesex	MA	Low	Air National Guard
Wendover Air Force Base	Tooele	UT	High	Air Force
Wesley Harris Naval Reserve	Kitsap	WA	High	Navy
West Point	Multiple Counties	NY	Low	Army
Westover Air Reserve Base	Hampden	MA	Low	Air Force
Whidbey Island Naval Air Station	N/A	WA	High	Navy
White Sands Missile Testing Ct	Multiple Counties	NM	High	Air Force
Whiteman Air Force Base	Johnson	MO	Low	Air Force
Whiting Field Naval Station	Santa Rosa	FL	Low	Navy
Will Rogers World Airport	Multiple Counties	OK	High	Air National Guard
Willow Grove AFRS	Multiple Counties	PA	Low	Air Force Reserve
Willow Grove Naval Air Station	Multiple Counties	PA	Low	Navy
Worcester Regional	Worcester	MA	Low	Other
Wright-Patterson Afb	Multiple Counties	OH	High	Air Force
X68	Brevard	FL	High	Other
Yakima Firing Center	Kittitas	WA	High	Army
Yeagar Airport Air Guard Station	Kanawha	WV	High	Air National Guard
Yeager Airport	Kanawha	WV	High	Air National Guard
Yorktown Naval Weapons Station	James City	VA	Low	Navy
Youngstown Airport AFRS	Trumbull	OH	Low	Air Force Reserve
Youngstown-Warren Regional	Trumbull	OH	Low	Air National Guard
Yuma Marine Corps Air Station	Yuma	AZ	High	Marines
Yuma Proving Ground	Yuma	AZ	High	Army

APPENDIX 2. Potential for Paleoindian Sites and Paleomaritime/Aquatic Associations on U.S. Military Installations—Point Dataset

Installation Name	County	State	Potential	Service
11th ACR Headquarters	San Bernardino	CA	High	Army
A P Hill Army Air Force Airport	Caroline	VA	Low	Army
Air Force Rest Camp	Clark	NV	High	Air Force
Air National Guard	Davidson	TN	Low	Air National Guard
Alameda Naval Air Station	Alameda	CA	High	Navy
Amedee Army Air Field	Lassen	CA	High	Army
Andrews Air Force Base	Prince George's	MD	Low	Air Force
Arkansas National Guard Emergency Access Heliport	Yell	AR	High	Army National Guard
Armory	Benton	TN	Low	Other
Armory	Madera	CA	High	Other
Armory	Wayne	NE	High	Other
Army Aviation Support Facility Airport	Shelby	IN	High	Army
Army Dock	Kenai Peninsula	AK	High	Army
Army Guard Helipad	Davidson	TN	Low	Army National Guard
Army Guard Heliport	Dane	WI	High	Army National Guard
Army Museum	Honolulu	HI	Low	Army
Army Reserve Center	Fayette	PA	Low	Army Reserve
Army Reserve Heliport	Des Moines	IA	Low	Army Reserve
Army Reserve Parking Lot Heliport	Winneshiek	IA	Low	Army Reserve
Assateague Beach U S Coast Guard Station	Accomack	VA	High	Coast Guard
Atlanta Naval Air Station	Cobb	GA	Low	Navy
Auburn General Depot	King	WA	High	Other
Bakalar Air Force Base	Bartholomew	IN	High	Air Force
Base Dispensary	Ventura	CA	High	Other
Beale Air Force Base	Yuba	CA	High	Air Force
Billy Mitchell Air Strip	Dare	NC	High	Other
Blaine Air Force Station	Whatcom	WA	High	Air Force
Boardman Bombing Range	Morrow	OR	High	Other
Bolling Air Force Base	District of Columbia	DC	High	Air Force
Bomb Target Windmill	King	TX	Low	Other
Bombing Target Windmill	Andrews	TX	High	Other
Box Elder Fort Site	Box Elder	UT	High	Other
Browns Canyon	San Juan	UT	High	Other
Bunker Hill Air Force Base	Miami	IN	Low	Air Force
C. Hart Merriam Base Camp	Coconino	AZ	High	Other
Caffey Inlet Coast Guard 170	Dare	NC	High	Coast Guard
Cairns Army Airfield	Dale	AL	Low	Army
California National Guard	Los Angeles	CA	High	Army National Guard
California Air National Guard	Fresno	CA	High	Air National Guard
California National Guard	Los Angeles	CA	High	Army National Guard
California National Guard Armo	Tulare	CA	High	Army National Guard
Cambria Air Force Station	San Luis Obispo	CA	High	Air Force

Installation Name	County	State	Potential	Service
Camp Clatsop Military Reservation	Clatsop	OR	High	Army
Camp Dunlap Naval Reservation	Imperial	CA	High	Navy
Camp Verde Military Reservation	Yavapai	AZ	High	Army
Camp Withycombe	Clackamas	OR	High	Army National Guard
Cannon Air Force Base	Curry	NM	High	Air Force
Cape Arago Coast Guard Reservation	Coos	OR	Low	Coast Guard
Cape Blanco Coast Guard Reservation	Curry	OR	Low	Coast Guard
Cape Hatteras Coast Guard Station	Dare	NC	High	Coast Guard
Castle Air Force Base	Merced	CA	High	Air Force
Central Nevada Test Site Base Camp	Nye	NV	High	Air Force
Chanute Aerospace Museum	Champaign	IL	Low	Other
Chanute Air Force Base Heliport	Champaign	IL	Low	Air Force
Cleveland Harbor Coast Guard Station	Cuyahoga	OH	High	Coast Guard
Coast Guard Station	Brazoria	TX	High	Coast Guard
Coast Guard Station Number 105	Franklin	FL	High	Coast Guard
Columbus Air Force Base	Lowndes	MS	High	Air Force
Cookeville Armory	Putnam	TN	Low	Other
Coos Head Naval Facilities	Coos	OR	Low	Navy
Corps of Engineers	Carteret	NC	Low	Army
Crane Ammunition Depot, US Naval Reserve	Martin	IN	Low	Navy
Cross Island Coast Guard Station	Washington	ME	Low	Coast Guard
Dare County Bombing Range	Dare	NC	High	Air Force
Davison Army Air Force Airport	Fairfax	VA	High	Army
Dawson Army Air Force Airport	Preston	WV	Low	Army
Defense Depot Memphis	Shelby	TN	Low	DoD
Defense Intelligence Analysis Center	District of Columbia	DC	High	Other
Delta Air Base	Mecklenburg	NC	Low	Other
Deming Armory	Luna	NM	High	Other
Deming Armory Historic Site (Same as Deming Armory)	Luna	NM	High	Other
Dept of Army Reserves 450 Engi	Cambria	PA	Low	Army
Dobbins Air Force Base	Cobb	GA	Low	Air Force
Dugway Military Clinic Heliport	Tooele	UT	High	Army
Dugway Proving Grounds-English Village Heliport	Tooele	UT	High	Army
Edwards Air Force Aux North Base	Kern	CA	High	Air Force
Edwards Air Force Base	Kern	CA	High	Air Force
Elkton Armory	Cecil	MD	Low	Army National Guard
Fairchild Air Force Base Airport	Spokane	WA	High	Air Force
Felker Army Air Force Airport	Newport News	VA	High	Army
Floyd Test Site (Griffiss AFB) BRAC	Oneida	NY	High	Air Force
Forbes Field (Topeka Kansas--Check location info)	Weld	CO	High	Air National Guard
Forney Army Air Force Airport	Pulaski	MO	Low	Army
Forney Army Airfield	Pulaski	MO	Low	Army
Fort Barnard	Arlington	VA	Low	Army
Fort Benton	Chouteau	MT	High	Army

Installation Name	County	State	Potential	Service
Fort Boggy	Leon	TX	Low	Army
Fort Borst	Lewis	WA	High	Army
Fort Burgwin	Taos	NM	High	Army
Fort Chadbourne	Coke	TX	Low	Army
Fort Craig	Socorro	NM	High	Army
Fort Davis	Petersburg	VA	Low	Army
Fort Deseret	Millard	UT	High	Army
Fort Detrick Helipad	Frederick	MD	Low	Army
Fort Donaldson	Scotland	MO	Low	Army
Fort Ellsworth	Alexandria	VA	High	Army
Fort Emory	Dinwiddie	VA	Low	Army
Fort Farnsworth	Fairfax	VA	Low	Army
Fort Fillmore	Dona Ana	NM	High	Army
Fort Fisher	Dinwiddie	VA	Low	Army
Fort Fitzhugh	Cooke	TX	Low	Army
Fort Gaines Airport	Clay	GA	Low	Army
Fort George G Meade	Anne Arundel	MD	Low	Army
Fort Glenn	Aleutians West	AK	High	Army
Fort Gordon Headquarters Helipad	Richmond	GA	Low	Army
Fort Greely	Southeast Fairbanks	AK	High	Army
Fort Gregg	Henrico	VA	Low	Army
Fort Griffin	Bell	TX	High	Army
Fort Harkness	Clark	ID	High	Army
Fort Hartsuff	Valley	NE	High	Army
Fort Hatch	San Miguel	NM	High	Army
Fort Hayes Military Reservation	Franklin	OH	Low	Army
Fort Jackson	Chatham	GA	Low	Army
Fort Jackson Helipad	Richland	SC	Low	Army
Fort Keogh Military Reservation	Custer	MT	High	Army
Fort Klamath	Klamath	OR	Low	Army
Fort Knox	Hardin	KY	Low	Army
Fort Lane	Jackson	OR	Low	Army
Fort Lawton Army Heliport	King	WA	High	Army
Fort Lee Army Heliport	Prince George	VA	High	Army
Fort Lee Number 1 Headquarters Heliport	Prince George	VA	Low	Army
Fort Lesley J McNair	District of Columbia	DC	High	Army
Fort Lyon	Fairfax	VA	High	Army
Fort Macomb	Orleans	LA	High	Army
Fort Macon	Carteret	NC	High	Army
Fort Mason	Dona Ana	NM	High	Army
Fort McDermitt	Humboldt	NV	Low	Army
Fort Merrill	Live Oak	TX	High	Army
Fort Milam	Falls	TX	High	Army
Fort Missoula	Missoula	MT	High	Army
Fort Monroe	Hampton	VA	High	Army
Fort Morris	Liberty	GA	High	Army

Installation Name	County	State	Potential	Service
Fort Norfolk	Norfolk	VA	Low	Army
Fort Owen	Ravalli	MT	High	Army
Fort Pearce	Washington	UT	High	Army
Fort Peck	Valley	MT	High	Army
Fort Pike	Clark	MO	High	Army
Fort Pike	Orleans	LA	High	Army
Fort Richardson (Army)	Anchorage	AK	High	Army
Fort Saint Peter	Warren	MS	High	Army
Fort San Miguel	McKinley	NM	High	Army
Fort Sheridan	Lake	IL	Low	Army
Fort Storey	Storey	NV	High	Army
Fort Tenoxtitlan	Burleson	TX	High	Army
Fort Union Military Reserve	Mora	NM	High	Army
Fort Urmston	Dinwiddie	VA	Low	Army
Fort W E Pete Phillips	Clay	AL	Low	Army
Fort Wallace	Wallace	KS	Low	Army
Fort Welch	Dinwiddie	VA	Low	Army
Fort Wheaton	Dinwiddie	VA	Low	Army
Fort Wilkinson	Baldwin	GA	Low	Army
Fort Willard	Fairfax	VA	Low	Army
Fort Windall Taylor	Pike	AL	Low	Army
Fort Wool	Hampton	VA	Low	Army
Fort Worth	Alexandria	VA	High	Army
Fort Worth General Depot	Tarrant	TX	Low	Army
Fritzsche Army Air Field	Monterey	CA	High	Army
Ft Delaware	New Castle	DE	High	Army
George Air Force Base	San Bernardino	CA	High	Air Force
Georgia Department of Defense Heliport	Fulton	GA	Low	Other
Glenview Naval Air Station	Cook	IL	Low	Navy
Gray Army Air Field	Pierce	WA	High	Army
Green River Ordnance Plant	Lee	IL	Low	DoD FUDS
Hagler Army Air Force Airport	Forrest	MS	Low	Army
Haley Army Helistop	Lake	IL	Low	Army
Harris Memorial Armory	Nottoway	VA	Low	Other
Hill Air Force Base Heliport	Davis	UT	High	Air Force
Honolulu Coast Guard Base	Honolulu	HI	Low	Coast Guard
Hunter Army Air Force Airport	Chatham	GA	Low	Army
Indian River Coast Guard Station	Sussex	DE	High	Coast Guard
Iowa Army National Guard Heliport	Black Hawk	IA	High	Army National Guard
Iowa National Guard	Lucas	IA	Low	Army National Guard
John Woodman Higgins Armory	Worcester	MA	Low	Other
Keesler Air Force Base	Harrison	MS	High	Air Force
Kings Battery	Baldwin	AL	High	Other
Kirk Air Base Airport	Lancaster	SC	Low	Air Force
Kirtland Air Force Base	Bernalillo	NM	High	Air Force
Lakeside-United States Air Force Heliport	Box Elder	UT	High	Air Force

Installation Name	County	State	Potential	Service
Langley Air Force Base	Hampton	VA	Low	Air Force
Larson Air Force Base Impact Areas	Grant	WA	High	Air Force
Las Vegas Armory	San Miguel	NM	High	Other
Launch Complex 33 Historic Site	Dona Ana	NM	High	DoD
Lawson Army Air Force Airport	Chattahoochee	GA	High	Army
Lemoore Naval Air Station	Kings	CA	High	Navy
Lexington Blue Grass Army Depot	Fayette	KY	Low	Army
Lexington-Blue Grass Army Depot	Madison	KY	Low	Army
Libby Army Airfield/Sierra Vista Municipal Airport	Cochise	AZ	High	Army
Little Island Coast Guard Station	Virginia Beach	VA	High	Coast Guard
Lockheed Advanced Development	Los Angeles	CA	High	Other
Loran Coast Guard Station	Charleston	SC	High	Coast Guard
Louisiana National Guard Armory	Ascension	LA	High	Army National Guard
Lt. Harvey Post Army Airfield	Comanche	OK	Low	Army
Makah Air Force Station	Clallam	WA	High	Air Force
March Air Force Base	Riverside	CA	High	Air Force
Mather Air Force Base	Sacramento	CA	High	Air Force
Maxwell Air Force Base	Montgomery	AL	High	Air Force
McClellan Air Force Base	Sacramento	CA	High	Air Force
McEntire Army National Guard Base	Richland	SC	Low	Army National Guard
Melrose Bombing Range (Melrose AF Range)	Roosevelt	NM	High	Air Force
Memphis Naval Air Station-Millington	Shelby	TN	Low	Navy
Meridian Naval Air Station	Lauderdale	MS	Low	Navy
Mil Res Center	Chemung	NY	High	Other
Military Donations (Military Donation No. 10--Cemetery)	Gibson	IN	Low	Other
Miramar Naval Air Station	San Diego	CA	High	Navy
Moody Air Force Base Airport	Lowndes	GA	Low	Air Force
Mosby Army Airstrip	Lumpkin	GA	Low	Army
Mountain Home Air Force Base	Elmore	ID	High	Air Force
Mountain Home Precision Bombing Range Number Three	Owyhee	ID	High	Air Force
Muir AAF Airport	Lebanon	PA	Low	Army
Myrtle Beach Air Force Base Airport	Horry	SC	Low	Air Force
Nasa Tracking Station	Transylvania	NC	Low	Other
National Armory	Douglas	WI	Low	Other
National Gaurd Armory	Ventura	CA	High	Army National Guard
National Guard	Imperial	CA	High	Army National Guard
National Guard	Los Angeles	CA	High	Army National Guard
National Guard	Orange	CA	High	Army National Guard
National Guard Amory	Davie	NC	Low	Army National Guard
National Guard Armory	Columbia	OR	High	Army National Guard
National Guard Armory	DeKalb	AL	Low	Army National

Installation Name	County	State	Potential	Service
				Guard
National Guard Armory	District of Columbia	DC	High	Army National Guard
National Guard Armory	Forsyth	NC	Low	Army National Guard
National Guard Armory	Hamblen	TN	Low	Army National Guard
National Guard Armory	Harrisonburg	VA	Low	Army National Guard
National Guard Armory	Henry	IL	Low	Army National Guard
National Guard Armory	Imperial	CA	High	Army National Guard
National Guard Armory	Jackson	KS	Low	Army National Guard
National Guard Armory	Keith	NE	High	Army National Guard
National Guard Armory	Los Angeles	CA	High	Army National Guard
National Guard Armory	Madison	KY	Low	Army National Guard
National Guard Armory	Marion	FL	Low	Army National Guard
National Guard Armory	Merced	CA	High	Army National Guard
National Guard Armory	Norton	KS	High	Army National Guard
National Guard Armory	Petersburg	VA	Low	Army National Guard
National Guard Armory	Riverside	CA	High	Army National Guard
National Guard Armory	Rock	WI	High	Army National Guard
National Guard Armory	St. Joseph	MI	High	Army National Guard
National Guard Armory	Unicoi	TN	Low	Army National Guard
National Guard Armory	Ventura	CA	High	Army National Guard
National Guard Armory	Vernon	MO	Low	Army National Guard
National Guard Armory	Washington	TN	Low	Army National Guard
National Guard Armory	Wilson	TN	Low	Army National Guard
Nat'l Guard Armory	Washington	IN	Low	Army National Guard
Naval Air Field El Centro Airport	Imperial	CA	High	Navy
Naval Reserve Training Center	Davidson	TN	High	Navy Reserve
Naval Submarine Base Bangor Heliport	Kitsap	WA	High	Navy
Naval Weapons Industrial Reserve Plant	Franklin	OH	Low	Navy
Navy-Marine Reserve Training Center	Jefferson	AL	Low	Other
New Mexico National Guard Armory	Santa Fe	NM	High	Army National Guard
Ng Ar Armory	La Crosse	WI	High	Army National Guard
Norfolk Naval Air Station	Norfolk	VA	Low	Navy

Installation Name	County	State	Potential	Service
North Carolina Air National Ga	Mecklenburg	NC	Low	Air National Guard
North Carolina National Guard Armory	Pitt	NC	High	Army National Guard
Northrop	Los Angeles	CA	High	Other
Oak Island Coast Guard Station	Brunswick	NC	High	Coast Guard
Oakland Army Terminal	Alameda	CA	High	Army
Ohio National Guard Armory	Clark	OH	High	Army National Guard
Oklahoma National Guard Armory	Comanche	OK	Low	Army National Guard
Othello Air Force Station	Franklin	WA	High	Air Force
Pa National Guard	Lackawanna	PA	Low	Army National Guard
Patuxent River Air Test Center (NAS)	St. Mary's	MD	High	Navy
Paul Gamiels Hill Coast Guard 171	Dare	NC	High	Coast Guard
Pennsylvania National Guard Camp	Cambria	PA	Low	Army National Guard
Philadelphia Naval Base Helipad	Philadelphia	PA	High	Navy
Phillips Army Air Force Airport	Harford	MD	High	Army
Pine Bluff Arsenal	Jefferson	AR	High	Army
Point Adams Coast Guard Station	Clatsop	OR	High	Coast Guard
Post Headquarters	San Bernardino	CA	High	Other
Reese Air Force Base	Terry	TX	High	Air Force
Reserve Training Center	Multnomah	OR	High	Other
Richmond Naval Air Station	Miami-Dade	FL	High	Navy
Robins Air Force Base Airport	Houston	GA	Low	Air Force
Rocket Fuel Test Site	Orange	CA	High	Other
Rockwell International Aircraft	Los Angeles	CA	High	Other
Rocky Mountain Arsenal	Adams	CO	High	Other
Sabre Army Airport	Montgomery	TN	Low	Army
San Nicolas Naval Facility	Ventura	CA	High	Navy
Sand Island Military Reservation	Clatsop	OR	High	Other
Savanna Army Depot Helipad	Carroll	IL	High	Army
Saylor Creek Air Force Range	Owyhee	ID	High	Air Force
Scott Air Force Base	St. Clair	IL	Low	Air Force
Scribner Air Force Base	Dodge	NE	High	Air Force
Seneca Army Airfield	Seneca	NY	Low	Army
Senior Center	San Diego	CA	High	Other
Seymour Johnson Air Force Base	Wayne	NC	Low	Air Force
Sharonville Depot U. S. Reservation	Hamilton	OH	Low	DoD FUDS
Sharpe Army Air Field	San Joaquin	CA	High	Army
Shaw Air Force Base Airport	Sumter	SC	Low	Air Force
Sheridan Army Air Force	Lake	IL	Low	Air Force
Sherman Army Airfield	Leavenworth	KS	High	Army
Tatalina Air Force Station	Yukon-Koyukuk	AK	High	Air Force
Tennessee Air National Guard	Hamilton	TN	Low	Air National Guard
Tennessee National Guard Armor	Rhea	TN	Low	Army National Guard

Installation Name	County	State	Potential	Service
Texas National Guard	Galveston	TX	High	Army National Guard
Tillamook Bay Coast Guard Station	Tillamook	OR	High	Coast Guard
Tipton Army Air Force Airport	Anne Arundel	MD	Low	Army
Tobyhanna Army Depot Airport	Monroe	PA	Low	Army
Tooele Army Depot Heliport	Tooele	UT	High	Army
Tracy Depot Army Heliport	San Joaquin	CA	High	Army
Travis AFB Aero Club Airport	Solano	CA	High	Air Force
Travis Air Force Base	Solano	CA	High	Air Force
Turner Field/Amphibious Base Heliport	San Diego	CA	High	Navy
Tx National Guard Armory	Webb	TX	Low	Army National Guard
U S Air Force Reserve Base	Trumbull	OH	Low	Air Force Reserve
U S Army Corp of Engineers-Loc	Grant	WI	High	Army
U S Army Corps of Engineers	Kern	CA	High	Army
U S Army Corps of Engineers-Lo	Grant	WI	High	Army
U S Army Reserve	Union	PA	Low	Army Reserve
U S Army Reserve	Webb	TX	High	Army Reserve
U S Army Reserve Center	Fresno	CA	High	Army Reserve
U S C G	Carteret	NC	High	Coast Guard
U S Coast Guard Station	St. Mary's	MD	High	Coast Guard
U S Naval and Marine Corps Res	Los Angeles	CA	High	Other
Umatilla Ordnance Depot	Morrow	OR	High	Army
United States Air Force Recreation Area	Summit	CO	High	Air Force
United States Army Administration Center	Cook	IL	High	Army
United States Army Corps of Engineer Vessel Yard	St. Louis	MN	High	Army
United States Army Reserve Center	Scott	IA	Low	Army
United States Coast Guard Building	District of Columbia	DC	High	Coast Guard
United States Coast Guard Lookout	Coos	OR	Low	Coast Guard
United States Coast Guard Radio Station and Fog Warning Station	Chippewa	MI	High	Coast Guard
United States Coast Guard Station	Bay	MI	High	Coast Guard
United States Coast Guard Station	Iosco	MI	High	Coast Guard
United States Coast Guard Station	Kewaunee	WI	High	Coast Guard
United States Corps of Engineers	Dutchess	NY	Low	Army
United States Naval Air Development Center	Bucks	PA	Low	Navy
United States Naval Reservation	District of Columbia	DC	High	Navy
United States Naval Reserve Armory	Santa Clara	CA	High	Navy Reserve
United States Navy Security Station	District of Columbia	DC	Low	Navy
US Army Reserve	Ontario	NY	Low	Army Reserve
US Army Reserve Center	Miami-Dade	FL	High	Army Reserve
US Coast Guard Station	Clatsop	OR	High	Coast Guard
US Coast Guard Station	Dare	NC	High	Coast Guard
US Military Reservation	Fairfax	VA	Low	Army
US Naval Air Station	Duval	FL	Low	Navy
US Naval Reserve Center	Racine	WI	High	Navy

Installation Name	County	State	Potential	Service
USAF Bombing Range Number 4	Natrona	WY	High	Air Force
Valkaria Missile Tracking Annex	Brevard	FL	Low	Air Force
Vandenberg Air Force Base	Santa Barbara	CA	High	Air Force
Walker Air Base Auxiliary Landing Field Number 3	Chaves	NM	High	Air Force
Washington National Guard Sinclair Heights Airport	Kitsap	WA	High	Army National Guard
Washington Navy Yard	District of Columbia	DC	High	Navy
Watres Armory	Lackawanna	PA	Low	Other
Weide Army Air Force Airport	Harford	MD	High	Army
Wenatchee Air Tanker Base and Fire Warehouse	Douglas	WA	High	Other
West Orange Armory	Essex	NJ	Low	Army National Guard
Whidbey Island Naval Air Station	Island	WA	High	Navy
White Sands Space Harbor	Dona Ana	NM	High	Other
Whiteman Air Force Base	Johnson	MO	Low	Air Force
Wilkins Air Force Station	Richland	OH	High	Air Force
Wolfpit Army Auxiliary Helipor	Covington	AL	Low	Army
Wright Army Air Force Airport	Liberty	GA	Low	Army
Wright-Patterson Air Force Base	Greene	OH	High	Air Force
Yakima Firing Center Army Air Force Airport	Yakima	WA	High	Army
Zumwalts Fort	St. Charles	MO	Low	Other