



Department of Defense Legacy Resource Management Program

PROJECT 10-429

Cerulean Warbler Occurrence Atlas for Military Installations

Torrey Wenger
Kalamazoo Nature Center

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Cerulean Warbler Occurrence Atlas for Military Installations
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Introduction

The Cerulean Warbler (CERW, *Dendroica cerulea*) is a small wood-warbler that nests and forages in the upper canopy of mature forests. The breeding range falls entirely within the eastern US and Canada. Current information indicates that CERW are declining. The CERW is included on the USFWS 1995 Species of Management Concern list, the USFWS Birds of Conservation Concern 2008 list, Partners in Flight's 2004 Continental Watch List, and the International Union for Conservation in Nature's 2008 Red List; it is also listed in 21 states, Ontario, and Canada, ranging from special concern to endangered.

In 2006, the USFWS declined to list the CERW as threatened under the Endangered Species Act. Although the population has been declining at approximately 3% annually, extinction is not likely within the next 100 years, assuming current trends and threats continue. The USFWS continues to monitor the status of both the bird and its habitat and will reexamine the listing status when necessary.

The Cerulean Warbler Occurrence Atlas for Military Installations will evaluate the CERW status on all Department of Defense (DoD) lands with appropriate habitat that fall within the species' breeding range (plus a 100-mile buffer). This will allow the DoD to manage proactively for CERW and to forge partnerships with state-level entities concerned with rare neotropical migrants, such as Important Bird Area programs and natural resource agencies. The long-term goal of all CERW management activities is to support the population and to prevent the federal listing of the CERW under the Endangered Species Act. Listed species can create enormous restrictions on land management and training exercises at military installations.

This is Year 2 of a projected three-year project. This project is entirely funded by the Department of Defense Legacy Resource Management Program.



Male Cerulean Warblers – photos by Phil Swanson and Brian Nelson

Methods

During Year 1, GIS technology was used to refine the list of potential sites. Habitat was evaluated at the 1-mile scale; questionable sites were also evaluated at finer resolution. All sites considered are listed in Appendix 1. (Appendix 1 is a simplified version of the Inventory, a separate Excel file.)

Points of Contact (POCs) were sought for each site. This was the main thrust of Year 1 and approximately half of Year 2. Each POC was sent a short questionnaire regarding habitat and bird survey work on-site. A sample questionnaire is attached as Appendix 2. In Year 1, a project overview, a photo of the bird, and a sound clip were provided. In Year 2, an introductory letter from the Legacy staff, a project overview, and a link to the Year 1 report were provided.

Questionnaires yielded three results: CERW present, CERW not present, or CERW presence unknown (ie, no current bird survey work). These results were recorded in the Inventory and are shown in Appendix 1. For locations with known CERW populations, we requested abstracts of any studies done, along with the contact information for the primary researcher.

Locations with a result of "CERW presence unknown" needed to be surveyed. These surveys constituted the second phase of Year 2 tasks. Field staff spent a maximum of 8 hours per location to determine if CERW were present or absent. These results were recorded in the Inventory and are shown in Appendix 1. The datasheet used is attached as Appendix 3. Fieldwork can only be done during the breeding season when male CERW are singing. We used local field staff when possible.

The field staff were instructed to focus their survey activities on CERW. The bird lists they developed were sent to the site POCs. As a courtesy, and with permission from the POC, these bird lists are also shared with active state breeding bird atlases (eg, Indiana, Massachusetts).

Difficulties

The Legacy Program funds were delayed this year. We were notified at the end of April that our project was approved; we should have hired all our staff by early April. (The field season for CERW surveys begins in late April, in southern states.) This delay resulted in only 37 sites being surveyed in 2010.

The GIS layer provided by the Department of Defense Partners in Flight Program Coordinator did not contain all the DoD locations. In Year 1, 14 additional sites

were uncovered; another 9 were found in Year 2. Of the 23 total “new” sites, 19 were USACE projects.

Navy

Surface Combat System
Center (VA)

USACE

Brier Creek (KY)
Cane Run (KY)
Dog Creek (KY)
FE Walter Reservoir (PA)
Fox Island (MO)
Lick Run (KY)
Long Fall Creek (KY)
Long Island (MO)

The response rate continued to be good. In Year 1, 212 sites had either no POC located or the questionnaire was not returned. In Year 2, that number dropped to 88.

Results

The following table summarizes the results from the questionnaires and surveys. The “Other” DoD category (column) contains sites operated by Defense Logistics Agency, for example. The “Other” status category (row) covers sites with no habitat, sites that have been decommissioned and sold, and sites that have merged with other installations. The final row contains sites without POCs. For detailed results, refer to Appendix 1.

CERW Status	All DoD	AF	Army	Marines	Navy	USACE	Other
CERW present	56	1	22	0	1	32	0
CERW not present	106	11	28	2	7	57	1
Unknown	81	2	18	0	2	58	1
Other	95	15	43	2	15	18	2
No response	37	6	7	1	1	22	0
No POC	51	5	23	2	16	3	2
TOTAL	426	40	141	7	42	190	6

Of all sites at this point, 13% have CERW present, 25% do not have CERW, and 19% are uncertain of CERW presence. Another 21% (88 sites) have no CERW status (either no response or no POC). Assuming that 20% of the “no status” sites report “CERW status unknown”, an estimated 100 sites will need to be surveyed in Year 3.

The following table breaks the results down by year. (“Year” refers to when the questionnaire was returned by the site POC.) The numbers for 2009 will not match those in the Year 1 report: These numbers include the results of surveys done in 2010. For example, 44 sites contacted in 2009 had CERW present; surveys done in 2010 documented CERW at 5 sites contacted in 2009, bringing the total of “2009” sites with CERW to 49. Additionally, a small number of sites submitted questionnaires in both 2009 and 2010; if the 2010 questionnaire yielded a different result, that result and year were used.

CERW Status	2009	2010	TOTAL
CERW present	49	7	56
CERW not present	60	46	106
Unknown	20	61	81
Other	72	23	95
No response	53	37	
No POC	159	51	
TOTAL	417	426	

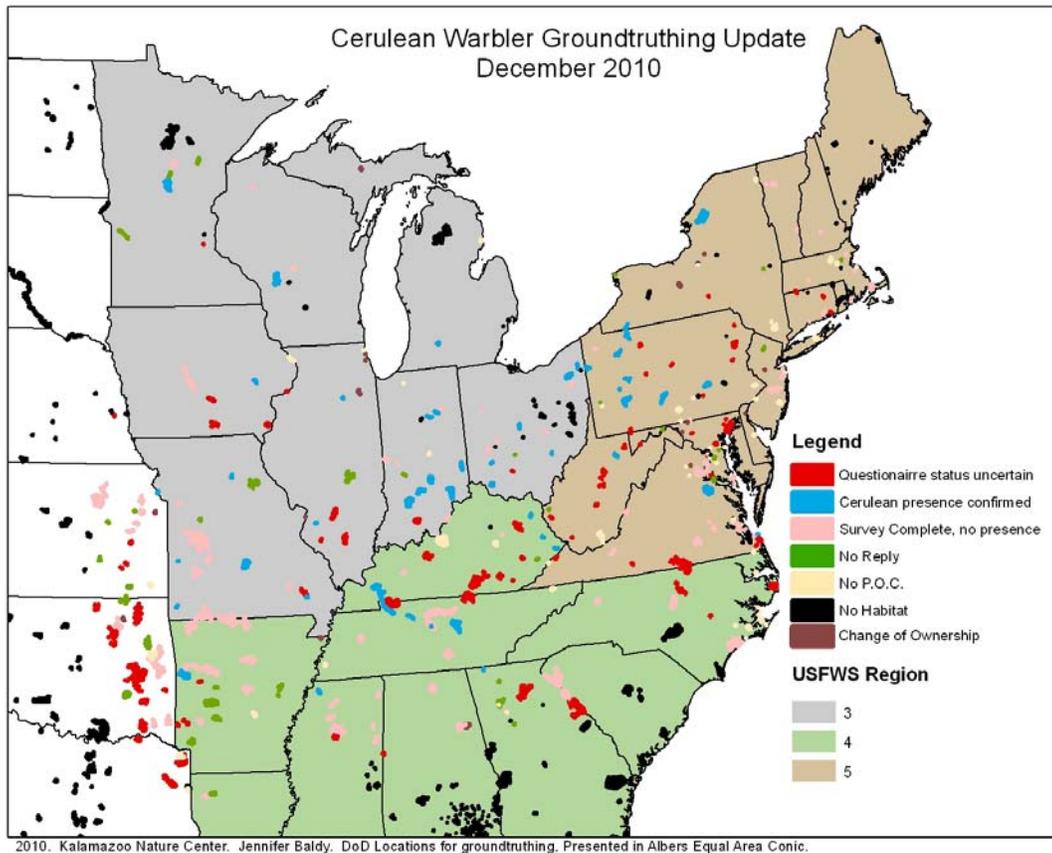
Ten sites were surveyed in Year 1 to establish and refine the protocol. An additional 37 sites were surveyed in 2010. The table below breaks the results of all 47 surveys into year surveyed and CERW presence found. We had planned to survey 60 to 80 sites in Year 2; Legacy’s delayed start resulted in fewer-than-expected sites actually surveyed.

Survey Result	2009	2010	TOTAL
CERW found	2	6	8
CERW not found	8	31	39
TOTAL	10	37	47

Survey efforts in Year 2 were to focus on Region 4, the Southeast. Due to our late start, we hired interested and qualified staff in any USFWS region. Field staff visited 3 Air Force sites, 3 Army sites, and 31 USACE sites. We did not conduct surveys in any state with an active Breeding Bird Atlas this year.

Surveyed Sites	Branch	State	CERW?	Year
Arkabutla Lake	USACE	MS	YES	2009
Askew Wildlife Manangement Area	USACE	MS	YES	2009
Barksdale AFB	Air Force	LA	NO	2009
Beaver Lake	USACE	AR	NO	2010
Birch Lake	USACE	OK	NO	2010
Broken Bow Lake	USACE	OK	NO	2010
Burr Oak Lake / Tom Jenkins Dam	USACE	OH	YES	2010
Center Hill Lake	USACE	TN	YES	2009
Cheatham Lake	USACE	TN	YES	2009
Clearwater Lake	USACE	MO	NO	2009
Clinton Lake	USACE	KS	NO	2009
Columbus AFB	Air Force	MS	NO	2009
Cordell Hull Lake	USACE	TN	NO	2009
Dobbins ARB	Air Force	GA	NO	2009
Enid Lake	USACE	MS	NO	2009
Greers Ferry Lake	USACE	AR	NO	2009
Grenada Lake	USACE	MS	NO	2009
Harry S. Truman Reservoir	USACE	MO	NO	2009
Hartwell Lake	USACE	GA-SC	NO	2010
J. Percy Priest Lake	USACE	TN	NO	2009
Lake City Army Ammunition Plant	Army	MO	NO	2009
Lake Dardanelle	USACE	AR	NO	2009
Lake Greeson	USACE	AR	NO	2010
Marseilles TS	Army NG	IL	YES	2009
Melvern Lake	USACE	KS	NO	2009
Old Hickory Lake	USACE	TN	NO	2009
Perry Lake	USACE	KS	NO	2009
Pine Creek Lake	USACE	OK	NO	2010
Pomme De Terre Lake	USACE	MO	NO	2009
Pomona Lake	USACE	KS	NO	2009
Richard B. Russell Lake	USACE	GA-SC	NO	2010
Sardis Lake	USACE	MS	NO	2009
Stockton Lake	USACE	MO	NO	2009
Table Rock Lake	USACE	AR-MO	NO	2009
Tenkiller Ferry Lake	USACE	OK	NO	2009
Truman Training Site	Army NG	MO	NO	2009
Webbers Falls Reservoir	USACE	OK	NO	2009

All results are shown in the map below. "CERW present" is marked in blue, "CERW not present" is marked in pink, and "CERW presence unknown" is marked in red.



In the Inventory, sites surveyed in 2009 are marked in rose, sites surveyed in 2010 are marked in yellow, and sites with a status of “other” (no habitat, no longer DoD property, etc) are marked in gray.

Recommendations

At this time, no range-wide recommendations can be made as 40% of the military installations remain to be contacted or surveyed. Since the Army and the Corps of Engineers have the most properties within the CERW's breeding range, together accounting for 75% of the sites in this study (and 96% of the sites with documented CERW populations), any management recommendations will primarily affect these two branches.

The following recommendations will be explored more fully in the Year 3 report. These are issues uncovered during our background research and during our work for the Fort Custer Training Center.

1) Use the mature forest species assemblage. These species (e.g., CERW, American Redstart, Yellow-throated Vireo) share similar habitat requirements

and typically occur together. The presence of other mature forest species can indicate the appropriateness of a forest tract for CERW.

2) Develop a silviculture prescription. New research is focusing on the historical silviculture management that created current CERW habitat. While each site needs a unique prescription based on its local conditions (eg, tree species, soil type, geographic region), “generic” prescriptions could be developed that could be adapted by the local land managers.

Two recommendations can be made now.

1) Coordinate with local landholders. CERW respond to habitat at the landscape level. Contiguous forest tracts, mature or not, are more attractive than fragmented forest tracts. Sites with good CERW habitat can be “sabotaged” by adjacent landowners that manage for grassland species, for example. This issue is especially applicable to USACE projects that control only a thin margin of land around the lake or reservoir. Coordination with local landholders will improve the habitat at a larger scale.

2) Formalize data sharing. USACE sites are 45% of the total sites in the study but 79% of the sites surveyed in Years 1 and 2 and 72% of the sites remaining to be surveyed. (Additionally, they comprise 45% of the sites without a response or POC.) Unlike standard military installations, USACE lakes and reservoirs are not required to have an integrated natural resources management plan. Millions of acres are under USACE management and most of them are publicly accessible. Undoubtedly, local birders, Audubon clubs, and ornithology classes visit these sites: The data they collect may or may not be shared with the site managers. Formalizing data sharing with these local “wildlife” groups will improve USACE’s knowledge of its sites. Formalized data sharing would also benefit military sites that allow public access (i.e., deer hunters or Christmas bird count surveyors).

Cerulean Warblers are present on installations within their core breeding range. We anticipate useful landscape-level patterns will emerge as the remaining sites are surveyed.

We are excited to continue this project in 2011.

Appendix 1:

Branch	Installation	State	CERW?	Year
Army	Aberdeen - Army Chemical Center	MD	--merged--	2009
Army	Aberdeen - Edgewood Arsenal	MD	--merged--	2009
USACE	Aberdeen Lake	MS	NO	2010
Army	Aberdeen Proving Ground (multiple parcels)	MD	UNCERTAIN	2009
Air Force	Air Force Plant No. 38	NY	--sold--	2009
USACE	Aliceville Lake	AL-MS	UNCERTAIN	2010
USACE	Allatoona Lake	GA	no response	
USACE	Allegheny Reservoir	NY-PA	YES	2009
USACE	Alum Creek Lake	OH	YES	2009
Air Force	Andrews AFB	MD	no response	
Army	ANNISTON ARMY DEPOT	AL	NO	2010
ARNG	ARDEN HILLS ARMY TRAINING SITE	MN	--no habitat--	2010
USACE	Arkabutla Lake	MS	YES	2009
Army	Army Reserve Outdoor Training Area	NE	--no habitat--	2009
Air Force	Arnold AFB	TN	NO	2010
USACE	Askew Wildlife Management Area	MS	YES	2009
USACE	Atwood Lake	OH	--no habitat--	2009
ARNG	AUSTIN TRAINING AREA	SD	--no habitat--	2009
USACE	B. Everett Jordan Lake	NC	NO	2010
Army	Badger Army Ammunition Plant	WI	--no habitat--	2009
Air Force	BARKSDALE AFB	LA	NO	2009
USACE	Barren River Lake	KY	NO	2010
USACE	Bay Springs Lake	MS	NO	2010
USACE	Beach City Lake	OH	--no habitat--	2009
USACE	Beaver Lake	AR	NO	2010
USACE	Beech Fork Lake	WV	no response	
Army	Belle Mead General Depot	NJ	--sold--	2009
USACE	Beltzville Lake	PA	UNCERTAIN	2010
USACE	Berlin Lake	OH	NO	2009
ARNG	BETHANY BEACH TS	DE	--no habitat--	2009
ARNG	BG THOMAS BAKER TRAINING SITE	MD	no response	
USACE	Big Sandy Lake (aka Sandy Lake)	MN	no response	
USACE	Birch Lake	OK	NO	2010
Navy	Bloodsworth Island U.S. Naval Reservation	MD	--no habitat--	2009
Army	Blossom Point Field Test Facility	MD	UNCERTAIN	2010
Army	BLUE GRASS ARMY DEPOT	KY	no POC	
USACE	Blue Marsh Lake	PA	--no habitat--	2010
USACE	Blue Mountain Lake	AR	UNCERTAIN	2010
USACE	Bluestone Lake	VA-WV	no POC	
USACE	Bolivar Dam	OH	--no habitat--	2009
Air Force	Bolling AFB	DC	--no habitat--	2009
USACE	Brier Creek	KY	NO	2010
USACE	Broken Bow Lake	OK	NO	2010
USACE	Brookville Lake	IN	YES	2009
USACE	Buckhorn Lake	KY	UNCERTAIN	2010

Branch	Installation	State	CERW?	Year
USACE	Bull Shoals Lake	AR-MO	NO	2009
USACE	Burnsville Lake	WV	UNCERTAIN	2010
USACE	Burr Oak Lake (aka Tom Jenkins Dam & Burr Oak Lake)	OH	YES	2010
USACE	Cache River Mitigation Project	AR	no response	
USACE	Caddo Lake	TX	--no habitat--	2010
USACE	Caesar Creek Lake	OH	YES	2009
USACE	Cagles Mill Lake (aka Cataract Lake)	IN	no response	
Army	Camden Test Annex	NY	--sold--	2009
ARNG	CAMP ASHLAND	NE	UNCERTAIN	2010
ARNG	CAMP ATTERBURY	IN	YES	2009
ARNG	CAMP BUTNER TRAINING SITE	NC	UNCERTAIN	2010
ARNG	CAMP CLARK	MO	YES	2009
ARNG	CAMP CROWDER	MO	YES	2009
ARNG	CAMP DAWSON	WV	UNCERTAIN	2009
ARNG	CAMP DODGE	IA	NO	2009
ARNG	CAMP EDWARDS	MA	NO	2009
ARNG	CAMP FOGARTY	RI	--no habitat--	2009
ARNG	CAMP GRUBER TRAINING SITE	OK	no POC	
ARNG	CAMP HARTELL	CT	--no habitat--	2009
ARNG	CAMP JOHNSON	VT	NO	2010
ARNG	CAMP MAXEY	TX	UNCERTAIN	2009
ARNG	CAMP MCCAIN	MS	UNCERTAIN	2010
ARNG	CAMP MINDEN	LA	no response	
Navy	Camp Peary Naval Reservation	VA	no POC	
ARNG	CAMP PENDLETON SMR	VA	NO	2010
ARNG	CAMP PERRY TRAINING SITE	OH	--no habitat--	2009
ARNG	Camp Ravenna Joint Military Training Center	OH	YES	2009
ARNG	CAMP RELL	CT	--no habitat--	2009
ARNG	CAMP RIPLEY	MN	YES	2009
ARNG	CAMP ROBINSON	AR	NO	2009
ARNG	Camp Sherman	OH	YES	2009
ARNG	CAMP SMITH TRAINING SITE	NY	NO	2009
Army	Camp Williams	WI	--no habitat--	2009
ARNG	CAMP WISMER TRAINING SITE	WI	NO	2009
USACE	Candy Lake	OK	--sold--	2010
USACE	Cane Run	KY	NO	2010
Army	CARLISLE BARRACKS	PA	no POC	
USACE	Carlyle Lake	IL	UNCERTAIN	2009
USACE	Carr Fork Lake (aka Carr Creek Lake)	KY	no response	
USACE	Carters Lake	GA	no response	
USACE	Cave Run Lake	KY	UNCERTAIN	2009
USACE	Cecil M. Harden Lake (aka Raccoon Lake)	IN	NO	2009
USACE	Center Hill Lake	TN	YES	2009
Army	Charles Melvin Price Support Center	IL	--sold--	2009
USACE	Charles Mill Lake	OH	--no habitat--	2009
USACE	Cheatham Lake	TN	YES	2009

Branch	Installation	State	CERW?	Year
USACE	Clarence J. Brown Reservoir	OH	NO	2009
ARNG	CLARKS HILL TS	SC	UNCERTAIN	2010
USACE	Clearwater Lake	MO	NO	2009
USACE	Clendening Lake	OH	--no habitat--	2009
USACE	Clinton Lake	KS	NO	2009
USACE	Colebrook River Lake	CT-MA	UNCERTAIN	2010
Air Force	Columbus AFB	MS	NO	2009
USACE	Columbus Lake	MS	NO	2010
USACE	Conemaugh River Lake	PA	YES	2009
USACE	Copan Lake	KS-OK	no response	
USACE	Coralville Reservoir	IA	YES	2009
USACE	Cordell Hull Lake	TN	NO	2009
USACE	Council Grove Lake	KS	no response	
Army	Craney Island Disposal Area	VA	--no habitat--	2009
USACE	Crooked Creek Lake	PA	YES	2009
USACE	Crosslake	MN	NO	2009
USACE	Curwensville Lake	PA	UNCERTAIN	2010
USACE	Dale Hollow Lake	KY-TN	UNCERTAIN	2010
DLA	DDC New Cumberland	PA	UNCERTAIN	2009
USACE	Deer Creek Lake	OH	no response	
USACE	DeGray Lake	AR	no response	
USACE	Delaware Lake	OH	no POC	
USACE	DeQueen Reservoir	AR	UNCERTAIN	2010
Army	DETROIT ARSENAL	MI	--no habitat--	2009
USACE	Dewey Lake	KY	YES	2009
USACE	Dierks Lake	AR	UNCERTAIN	2010
USACE	Dillon Lake	OH	NO	2009
Air Force	Dobbins ARB	GA	NO	2009
USACE	Dog Creek	KY	NO	2010
Air Force	Dover AFB (multiple parcels)	DE	no POC	
Navy	Driver Naval Radio Transmitting Facility (Closed)	VA	--no habitat--	2009
DLA	DSC Richmond	VA	NO	2009
DLA	DSCC Columbus	OH	--no habitat--	2009
Air Force	Eaker Air Force Base (Closed)	AR	--sold--	2009
USACE	East Branch Clarion River Lake	PA	UNCERTAIN	2009
ARNG	EAST HAVEN RIFLE RANGE	CT	NO	2009
USACE	East Lynn Lake	WV	UNCERTAIN	2010
ARNG	EASTERN KY MTA - WETS	KY	NO	2010
USACE	El Dorado Lake	KS	no response	
USACE	Elk City Lake	KS	no response	
USACE	Enid Lake	MS	NO	2009
ARNG	ETHAN ALLEN FIRING RANGE	VT	NO	2010
USACE	Eufaula Lake	OK	UNCERTAIN	2010
USACE	Fall River Lake	KS	UNCERTAIN	2010
USACE	Falls Lake Reservoir	NC	UNCERTAIN	2010
USACE	FE Walter Reservoir	PA	UNCERTAIN	2010
USACE	Fishtrap Lake	KY	YES	2009

Branch	Installation	State	CERW?	Year
Air Force	Forbes Air Force Base	KS	no response	
Army	FORT A.P. HILL	VA	YES	2009
Army	FORT BELVOIR	VA	NO	2009
Army	Fort Benjamin Harrison (Closed)	IN	no POC	
Army	FORT CAMPBELL	KY	UNCERTAIN	2010
ARNG	FORT CHAFFEE	AR	YES	2009
ARNG	FORT CUSTER TRAINING CENTER	MI	YES	2009
Army	FORT DETRICK	MD	UNCERTAIN	2009
Army	Fort Devens	MA	no POC	
Army	FORT DIX	NJ	--merged--	2010
Army	FORT DRUM	NY	YES	2010
Army	FORT EUSTIS	VA	--merged--	2009
Army	FORT GEORGE G. MEADE	MD	UNCERTAIN	2010
USACE	Fort Gibson Lake	OK	no response	
Army	FORT GILLEM	GA	no response	
Army	FORT HAMILTON	NY	--no habitat--	2009
ARNG	FORT INDIANTOWN GAP	PA	YES	2009
Army	FORT KNOX	KY	no POC	
Army	FORT LEAVENWORTH	KS	YES	2009
Army	FORT LEE	VA	NO	2010
Army	FORT LEONARD WOOD	MO	YES	2009
Army	FORT LESLIE J. MCNAIR	DC	--merged--	2009
Army	Fort McClellan Military Reservation (Closed)	AL	--sold--	2009
ARNG	FORT MCCLELLAN TNG CENTER	AL	NO	2009
Army	FORT MCCOY	WI	YES	2009
Army	FORT MCPHERSON	GA	--no habitat--	2009
Army	FORT MONMOUTH	NJ	no POC	
Army	FORT MONROE	VA	--no habitat--	2009
Army	FORT MYER	VA	--merged--	2009
ARNG	FORT PICKETT	VA	NO	2010
Army	FORT RILEY	KS	NO	2009
Army	Fort Ritchie Military Reservation (Closed)	MD	--sold--	2010
Army	Fort Sheridan (Closed 1993)	IL	--sold--	2009
Army	Fort Story	VA	YES	2009
USACE	Foster Joseph Sayers Dam	PA	UNCERTAIN	2010
USACE	Fox Island	MO	UNCERTAIN	2010
Air Force	General Mitchell IAP ARS	WI	--no habitat--	2009
USACE	Gillham Lake	AR	UNCERTAIN	2010
Navy	Glenview Naval Air Station (Closed)	IL	--sold--	2009
Army	Globecom Radio Receiving Station	MD	no POC	
USACE	Grayson Lake	KY	YES	2009
USACE	Green River Lake	KY	YES	2010
Army	Greencastle Military Reservation	PA	no POC	
USACE	Greers Ferry Lake	AR	NO	2009
USACE	Grenada Lake	MS	NO	2009
Air Force	Grissom ARB	IN	--no habitat--	2009
ARNG	GUILDERLAND WETS	NY	no response	

Branch	Installation	State	CERW?	Year
USACE	Gull Lake	MN	no response	
Air Force	Hancock Field U.S. Air Force	NY	--no habitat--	2010
Air Force	Hanscom AFB	MA	no response	
Air Force	Hardwood Range	WI	NO	2009
ARNG	Harold L Disney Training Center (aka Artemus Training Site)	KY	UNCERTAIN	2010
USACE	Harry S. Truman Reservoir	MO	NO	2009
USACE	Hartwell Lake	GA-SC	NO	2010
DoD	Harvey Point Defense Testing Activity	NC	no POC	
Marine Corps	Henderson Hall	VA	--merged--	2009
USACE	Heyburn Lake	OK	UNCERTAIN	2010
Army	HOLSTON AAP	TN	no POC	
USACE	Hopkinton Lake	NH	NO	2010
USACE	Hugo Lake	OK	UNCERTAIN	2010
USACE	Hulah Lake	KS-OK	no response	
USACE	Huntington Lake (aka JE Roush Lake)	IN	NO	2009
Army	Indiana Arsenal Army Ammunition Plant (Closed)	IN	NO	2009
Army	IOWA ARMY AMMUNITION PLANT	IA	UNCERTAIN	2009
USACE	J. Percy Priest Lake	TN	NO	2009
USACE	J. Strom Thurmond Lake	GA-SC	UNCERTAIN	2010
Army	JB Myer-Henderson Hall	VA	UNCERTAIN	2009
Navy	JEB Little Creek	VA	NO	2010
Army	Jefferson Proving Ground (Closed)	IN	YES	2009
USACE	Jennings Randolph Lake	MD-WV	UNCERTAIN	2010
USACE	John H. Kerr Reservoir	NC-VA	UNCERTAIN	2010
USACE	John Redmond Reservoir	KS	UNCERTAIN	2010
USACE	John W. Flanagan Reservoir (multiple parcels)	VA	UNCERTAIN	2010
Air Force	Joint Base Langley-Eustis	VA	NO	2010
Air Force	Joint Base McGuire-Dix-Lakehurst	NJ	NO	2010
Army	Joliet Army Ammunition Plant	IL	--sold--	2009
Army	JSMC-Lima	OH	NO	2009
Air Force	K. I. Sawyer Air Force Base (Closed)	MI	--sold--	2009
Army	KANSAS ARMY AMMUNITION PLANT	KS	no POC	
USACE	Kaw Lake	OK	UNCERTAIN	2010
Army	KELLY SUPPORT CENTER	PA	no POC	
USACE	Keystone Lake	OK	UNCERTAIN	2010
USACE	Lac qui Parle	MN	no response	
USACE	Lake Barkley	KY-TN	YES	2010
Army	LAKE CITY ARMY AMMUNITION PLAN	MO	NO	2009
USACE	Lake Cumberland	KY	UNCERTAIN	2010
USACE	Lake Dardanella	AR	NO	2009
USACE	Lake Greeson	AR	NO	2010
USACE	Lake Moomaw	VA	NO	2010
USACE	Lake O' The Pines	TX	UNCERTAIN	2010
USACE	Lake Ouachita	AR	no response	

Branch	Installation	State	CERW?	Year
USACE	Lake Red Rock	IA	UNCERTAIN	2010
USACE	Lake Shelbyville	IL	no response	
USACE	Lake Sidney Lanier	GA	UNCERTAIN	2010
Army	LaPorte Outdoor Training Facility	IN	no POC	
USACE	Laurel River Lake	KY	UNCERTAIN	2010
USACE	Leech Lake	MN	--no habitat--	2010
USACE	Leesville Lake	OH	--no habitat--	2009
Army	LETTERKENNY ARMY DEPOT	PA	no POC	
Army	Lexington-Blue Grass Army Depot (Closed)	KY	--no habitat--	2009
USACE	Lick Run	KY	NO	2010
Air Force	Little Rock AFB	AR	NO	2010
Army	LONE STAR AAP	TX	UNCERTAIN	2010
USACE	Long Fall Creek	KY	NO	2010
USACE	Long Island	MO	UNCERTAIN	2010
Army	Longhorn Ordnance Army Ammo Plant	TX	no POC	
USACE	Loyalhanna Lake	PA	YES	2009
ARNG	MACON TRAINING SITE	MO	YES	2009
USACE	Mahoning Creek Lake	PA	YES	2009
USACE	Mansfield Hollow Lake	CT	UNCERTAIN	2010
Marine Corps	MARBKS Washington DC	DC	--no habitat--	2009
USACE	Mark Twain Lake	MO	no response	
ARNG	MARSEILLES TS	IL	YES	2009
USACE	Mash Lake = Marsh Lake	MN	--merged--	2010
Army	MCALESTER AAP	OK	no response	
Marine Corps	MCAS Cherry Point (multiple parcels)	NC	no POC	
Marine Corps	MCAS New River	NC	no response	
Marine Corps	MCB Camp Lejeune	NC	NO	2010
Marine Corps	MCB Quantico	VA	NO	2010
Air Force	McGuire Air Defense	NJ	--merged--	2010
ARNG	MEAD TRAINING SITE	NE	--no habitat--	2009
USACE	Melvorn Lake	KS	NO	2009
Navy	Memphis Naval Air Station (Closed)	TN	no POC	
USACE	Michael J. Kirwan Reservoir	OH	YES	2009
Army	MILAN AAP	TN	NO	2009
USACE	Milford Lake	KS	NO	2009
USACE	Millwood Lake	AR	no response	
Air Force	Minneapolis-St Paul IAP ARS	MN	UNCERTAIN	2009
USACE	Mississinewa Lake	IN	YES	2009
USACE	Mohawk Reservoir	OH	--no habitat--	2009
USACE	Monroe Lake	IN	YES	2009
USACE	Mosquito Creek Lake	OH	YES	2009
USACE	Mount Morris Lake	NY	--no habitat--	2010
ARNG	MTA CAMP CURTIS GUILD	MA	NO	2009
ARNG	MUSCATATUCK URBAN TRNG CENTER	IN	YES	2009
Joint Reserve Base	NAS and JRB Willow Grove (multiple parcels)	PA	no POC	
Navy	NAS ATLANTA	GA	no POC	
Navy	NAS Lakehurst	NJ	--merged--	2010

Branch	Installation	State	CERW?	Year
Navy	NAS Lakehurst Pinehurst Estates	NJ	--no habitat--	2009
Navy	NAS Oceana (multiple parcels)	VA	UNCERTAIN	2010
Navy	NAS PATUXENT RIVER (multiple parcels)	MD	NO	2009
Navy	National Naval Medical Center (Bethesda)	MD	--no habitat--	2010
Navy	Naval Academy Dairy Farm	MD	no POC	
Navy	Naval Facility Engineering Command	NC-VA	no POC	
Navy	Naval Med Center Portsmouth	VA	--no habitat--	2009
Navy	NAVAL SHIPYARD NORFOLK (multiple parcels)	VA	--merged--	2010
Navy	Naval Station Annapolis	MD	no POC	
Navy	Naval Station Norfolk	VA	--no habitat--	2010
Navy	Naval Station Washington, Solomons Complex	MD	no POC	
Navy	Naval Support Activity Mechanicsburg	PA	--no habitat--	2009
Navy	Naval Weapons Industrial Reserve Plant	NY	no POC	
Navy	NAVSTA Newport (multiple parcels)	RI	NO	2009
Navy	Navy Supply Corps School Athen	GA	--no habitat--	2009
Navy	New London (multiple parcels)	CT	UNCERTAIN	2009
Army	Newport Army Ammunition Plant	IN	--merged--	2010
Army	NEWPORT CHEMICAL DEPOT (multiple parcels)	IN	NO	2009
ARNG	NGTC SEA GIRT	NJ	--no habitat--	2009
Air Force	Niagara Falls IAP ARS	NY	--no habitat--	2009
USACE	Nimrod Lake	AR	no response	
Navy	NIOC Sugar Grove	WV	--no habitat--	2010
USACE	Nolin River Lake	KY	NO	2010
USACE	Norfolk Lake	AR-MO	NO	2009
USACE	North Fork Pound Lake	VA	no POC	
USACE	North Springfield Lake	VT	NO	2010
Navy	NRL Washington (multiple parcels)	DC	no POC	
Navy	NS Great Lakes	IL	no POC	
Navy	NSF Carderock	MD	--no habitat--	2010
Navy	NSF INDIAN HEAD (multiple parcels)	MD	NO	2010
Navy	NSPC Center Mechanicsburg	WV	--no habitat--	2009
Navy	NSWC DAHLGREN (multiple parcels)	VA	no response	
Navy	NWS Earle (multiple parcels)	NJ	NO	2010
Navy	NWS Yorktown (multiple parcels)	VA	NO	2010
Navy	NWSC Crane	IN	YES	2009
Air Force	OFFUTT AFB (multiple parcels)	NE	--no habitat--	2009
USACE	Old Hickory Lake	TN	NO	2009
USACE	Oologah Lake	OK	UNCERTAIN	2010
USACE	Ozark Lake	AR	NO	2010
USACE	Paint Creek Lake	OH	UNCERTAIN	2010
USACE	Paintsville Lake	KY	YES	2009
USACE	Pat Mayse Lake	TX	UNCERTAIN	2010
USACE	Patoka Lake	IN	UNCERTAIN	2010
DoD	Pentagon	VA	--no habitat--	2009
USACE	Perry Lake	KS	NO	2009

Branch	Installation	State	CERW?	Year
Navy	Philadelphia Naval Base (Closed)	PA	no POC	
USACE	Philpott Lake	VA	UNCERTAIN	2010
Army	PICATINNY ARSENAL	NJ	no response	
USACE	Piedmont Lake	OH	--no habitat--	2009
Army	PINE BLUFF ARSENAL	AR	no POC	
USACE	Pine Creek Lake	OK	NO	2010
Air Force	Pittsburgh IAP ARS	PA	no response	
Air Force	Plattsburgh Air Force Base (Closed)	NY	no POC	
USACE	Pleasant Hill Lake	OH	--no habitat--	2009
USACE	Pomme De Terre Lake	MO	NO	2009
USACE	Pomona Lake	KS	NO	2009
USACE	Prompton Lake	PA	UNCERTAIN	2010
Air Force	Prototype Low Frequency Communications System	NE	--no habitat--	2009
USACE	R. D. Bailey Lake	WV	UNCERTAIN	2009
Army	Radford Army Ammunition Plant	VA	NO	2009
USACE	Rathbun Lake	IA	UNCERTAIN	2009
Army	Raven Rock Military Complex	PA	no POC	
USACE	Raystown Lake	PA	YES	2009
Army	RED RIVER ARMY DEPOT	TX	no POC	
Army	REDSTONE ARSENAL	AL	NO	2010
USACE	Rend Lake	IL	UNCERTAIN	2009
USACE	Richard B. Russell Lake	GA-SC	NO	2010
ARNG	RIVER ROAD TRAINING SITE	DE	--sold--	2009
USACE	Robert S. Kerr Lake	OK	NO	2009
Army	ROCK ISLAND ARSENAL	IL	UNCERTAIN	2010
Air Force	Rome Laboratory (Rome Research)	NY	--no habitat--	2009
USACE	Rough River Lake	KY	UNCERTAIN	2010
USACE	Salamonie Lake	IN	YES	2009
USACE	Sardis Lake	MS	NO	2009
USACE	Sardis Lake	OK	UNCERTAIN	2010
Army	Savanna Army Depot (Scheduled to close)	IL	no POC	
USACE	Saylorville Lake	IA	YES	2009
Air Force	Scott AFB	IL	YES	2010
Army	SCRANTON ARMY AMMUNITION PLANT	PA	--no habitat--	2009
Air Force	Selfridge ANGB	MI	--no habitat--	2010
Army	Seneca Army Depot (Scheduled to close)	NY	--sold--	2009
USACE	Senecaville Lake	OH	--no habitat--	2009
Air Force	Seymour Johnson AFB (multiple parcels)	NC	UNCERTAIN	2010
USACE	Shenango Lake	PA	YES	2009
USACE	Skiatook Lake	OK	NO	2010
Army	SOLDIER SYSTEMS CENTER NATICK	PA	--no habitat--	2009
Navy	South Weymouth Naval Air Station (Closed)	MA	NO	2010
ARNG	SPARTA	IL	UNCERTAIN	2009
Air Force	Springfield-Beckley MPT AGS	OH	--no habitat--	2009
Air Force	Stewart IAP AGS	NY	no POC	
USACE	Stockton Lake	MO	NO	2009
ARNG	STONES RANCH MIL RES	CT	NO	2009

Branch	Installation	State	CERW?	Year
USACE	Stonewall Jackson Lake	WV	UNCERTAIN	2009
USACE	Summersville Lake	WV	UNCERTAIN	2010
Army	Sunflower Army Ammunition Plant (Closed)	KS	--sold--	2010
Navy	Surface Combat Systems Center	VA	--no habitat--	2010
USACE	Sutton Lake	WV	UNCERTAIN	2009
USACE	Table Rock Lake	AR-MO	NO	2009
USACE	Tappan Lake	OH	--no habitat--	2009
USACE	Taylorsville Lake	KY	NO	2010
USACE	Tenkiller Ferry Lake	OK	NO	2009
USACE	Tionesta Lake	PA	YES	2009
Army	TOBYHANNA ARMY DEPOT	MA-PA	UNCERTAIN	2009
USACE	Toronto Lake	KS	UNCERTAIN	2010
ARNG	TRUMAN TRAINING SITE	MO	NO	2009
USACE	Tuttle Creek Lake	KS	NO	2009
USACE	Tygart Lake	WV	YES	2009
Air Force	U.S. Air Force Transmitter Station	MD	no response	
Army	U.S. Army Aberdeen Proving Ground	MD	--merged--	2009
Army	U.S. Army Reserve Center	MA	no POC	
Marine Corps	U.S. Marine Corps Reserve Training Center	NY	no POC	
Navy	U.S. Naval Air Development Center	PA	no POC	
Navy	U.S. Naval Radio Receiving Station	MD	no POC	
Navy	U.S. Naval Supply Center	VA	no POC	
Navy	U.S. Naval Surface Weapons Center	MD	no POC	
USACE	Union City	PA	NO	2009
Army	UNITED STATES MILITARY ACADEMY	NY	no POC	
Army	US ARMY GARRISON SELFRIDGE	MI	--merged--	2010
Army	US Army Natick Soldier RDE Center	MA	no POC	
Navy	US Naval Academy Annapolis	MD	no POC	
Army	Vint Hill Farms Station Military Reservation (Closed)	VA	--sold--	2009
Air Force	Volk Field CRTC	WI	NO	2009
ARNG	VTS Catoosa	TN-GA	YES	2010
ARNG	VTS MILAN	TN	NO	2010
ARNG	VTS SMYRNA	TN	YES	2010
ARNG	VTS TULLAHOMA	TN	--merged--	2010
USACE	W. Kerr Scott Reservoir	NC	NO	2010
Army	WALTER REED AMC	DC	--no habitat--	2009
USACE	Wappapello Lake	MO	UNCERTAIN	2010
ARNG	WAPPAPELLO TRAINING SITE	MO	YES	2009
Air Force	Warren Grove Range	NJ	no POC	
Army	Warrenton Training Center Military Reservation	VA	no POC	
Army	WATERVLIET ARSENAL	NY	--no habitat--	2009
USACE	Webbers Falls Reservoir	OK	NO	2009
ARNG	WENDELL H FORD RTC	KY	NO	2010
USACE	West Fork (Mill Creek) Lake	OH	UNCERTAIN	2010
Air Force	Westover ARB	MA	NO	2009
Air Force	WHITEMAN AFB	MO	no response	

Branch	Installation	State	CERW?	Year
USACE	Whitney Point Lake	NY	UNCERTAIN	2010
USACE	Willam H. Harsha Lake	OH	YES	2009
USACE	Wills Creek Lake	OH	--no habitat--	2009
USACE	Wister Lake	OK	UNCERTAIN	2010
USACE	Woodcock Creek Lake	PA	NO	2009
USACE	Wright Patman Lake	TX	UNCERTAIN	2010
Air Force	Wright-Patterson AFB	IL	NO	2009
Air Force	Wurtsmith Air Force Base (Closed)	MI	no POC	
USACE	Yatesville Lake	KY	YES	2009
USACE	Youghiogheny River Lake	MD-PA	UNCERTAIN	2009
ARNG	YOUNGSTOWN TRAINING SITE	NY	no response	
Air Force	Youngstown-Warren Reg APT ARS	OH	--no habitat--	2009

Appendix 2:

Cerulean Warbler Survey Questionnaire

1. Does your site have mature forest? (> 50 feet high, > 50% canopy coverage)

Yes No

If yes, how many contiguous acres? (If your site has multiple parcels, please list each parcel separately.)

2. Have bird surveys been done at your site within the past 5 years? (This can include surveys by your own staff, Audubon groups, or contracted researchers.)

Yes No

If yes, have they been during the breeding season? (See dates below.)

Yes No

If yes, have Cerulean Warblers been documented?

Yes No

3. Have contracted researchers conducted Cerulean Warbler-specific studies?

Yes No

If yes, please include the "Abstract" paragraph from the completed study or a one paragraph synopsis of the study along with the contact information for the lead researcher.

4. If we need to access your site to survey for Cerulean Warblers who should we contact to get permission?

Name:

Email:

Phone:

Breeding season dates:

Arrives April 15 from Tennessee north

Arrives May 1 from Pennsylvania to Iowa and north

Your Name:

Site:

E-mail:

Phone:

Address:

Appendix 3:
Site Visit Sheet

Location: _____
 POC (Point of Contact) name: _____
 POC phone: _____
 POC e-mail: _____

Surveyor: _____
 Date: _____ Time spent at site: _____ hours

Guidelines for search:

1. Your ID can be requested at any time while you are on a military installation. Your vehicle is also subject to search. Therefore, always have your ID with you and do not bring any weapons, alcohol, or illegal substances onto the base.
2. Your primary objective is to determine Cerulean Warbler presence/absence. This is not a population survey.
3. Use all of your allotted time at each site. Cover all areas with potential habitat.
4. Survey wisely. Ceruleans are most active in the morning but are vocal throughout the afternoon. They also prefer nesting locations that have little or no shrub layer or ground cover (ie, along roads).
5. Record all your bird observations on a standard state checklist. This information will be shared with the POC for the installation's environmental records.
6. Return your data and reimbursements (on back) by **1 July 2010**.

Results:

1. Was a Cerulean Warbler confirmed at this site? YES NO
2. Approximate number of Ceruleans encountered = _____
3. Do you feel you were able to adequately survey all appropriate mature forest habitats? YES NO Describe the areas searched/unsearched.

4. Location of Cerulean(s): Provide latitude / longitude (if GPS is available) or describe the general area in space below and attach a map.

5. Attach the checklist of all birds encountered during the survey period.