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DRAFT FINAL

**Integrated Natural Resources
Management Plan
Nebraska Army National Guard**

Camp Ashland Training Site, Ashland, NE
Camp Ashland Training Site – Mead, Mead, NE
Greenlief Training Site, Hastings, NE
Greenlief Training Site – Silver Creek, Silver Creek, NE



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Prepared for:

Nebraska Army National Guard
Construction Facility Management Office – Environmental Branch
2433 NW 24th Street
Lincoln, NE 68524

September 2022

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49 **SIGNATURE PAGE**
50 **NEBRASKA ARMY NATIONAL GUARD**
51 **LINCOLN, NEBRASKA**
52

53 This Integrated Natural Resources Management Plan (INRMP), dated September 2022, was
54 developed by the Nebraska Army National Guard (NEARNG) and the National Guard Bureau
55 (NGB) in accordance with Army Regulation 200-1 (AR 200-1) – *Environmental Protection and*
56 *Enhancement*, Department of Defense Manual 4715.03 (DODM 4715.03) – *Integrated Natural*
57 *Resources Management Plan Implementation Manual*, and Department of Defense Instruction
58 4715.03 (DODI 4715.03) – *Natural Resources Conservation Program*, and the provisions of the
59 Sikes Act, as amended (16 United States Code §670a et seq.) in cooperation with the United
60 States Fish and Wildlife Service (USFWS), and Nebraska Game and Parks Commission
61 (NGPC). The management of natural resources in this INRMP reflects the mutual agreement of
62 all parties.

63 By their signatures below, or an enclosed letter of concurrence, all parties grant their concurrence
64 and acceptance of the following document.

Approving Officials:

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U.S. Fish and Wildlife Service

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Director
Nebraska Game and Parks Commission

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**ANNUAL REVIEW AND COORDINATION DOCUMENTATION
2022**

112 This page is used to certify the annual review and coordination of the Integrated Natural
113 Resources Management Plan (INRMP) for the Nebraska Army National Guard training lands.
114 By their signatures below, the certifying official acknowledges that the annual review and
115 coordination of the INRMP has occurred for the specified year.

116

117 **Approving Officials:**

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**Environmental Program Manager
Nebraska Army National Guard**

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**Director, Nebraska Field Office
U.S. Fish and Wildlife Service Signatory**

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**Director
Nebraska Game and Parks Commission**

Date

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Nebraska Game and Parks Commission**

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**ANNUAL REVIEW AND COORDINATION DOCUMENTATION
2024**

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Date

**Director, Nebraska Field Office
U.S. Fish and Wildlife Service Signatory**

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Nebraska Game and Parks Commission**

Date

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**ANNUAL REVIEW AND COORDINATION DOCUMENTATION
2025**

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152 Resources Management Plan (INRMP) for the Nebraska Army National Guard training lands.
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155

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528

1. EXECUTIVE SUMMARY

529 This Integrated Natural Resources Management Plan (INRMP), dated September 2022, was
530 developed by the Nebraska Army National Guard (NEARNG) and the National Guard Bureau
531 (NGB) in accordance with Army Regulation 200-1 (AR 200-1) – *Environmental Protection and*
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533 *Resources Management Plan Implementation Manual*, Department of Defense Instruction
534 4715.03 (DODI 4715.03) – *Natural Resources Conservation Program*, and the provisions of the
535 Sikes Act, as amended (16 United States Code §670a et seq.).

536 This INRMP provides NEARNG and the NEARNG’s training sites at the Camp Ashland
537 Training Site (CATS), Camp Ashland Training Site – Mead (CATS-M), Greenlief Training Site
538 (GTS), and Greenlief Training Site – Silver Creek (GTS-SC) with a description of the
539 installation and its surrounding environment and presents management practices designed to
540 mitigate negative impacts and enhance the positive effects of the installation’s mission on
541 regional ecosystems. These recommendations have been balanced against the requirements of
542 NEARNG to accomplish its military mission at the highest possible level of efficiency.

543 The maintenance and enhancement of biological diversity is particularly important in the
544 management of natural resources and will be accomplished through the implementation of
545 specific management practices identified in this INRMP. Biodiversity is simply defined as “the
546 variety of life and its processes.”

547 Biodiversity does not just describe how many species there are or how evenly they are
548 represented in each community. Rather, biodiversity can be applied on four basic levels:

- 549 1. **Genetic Diversity**— Refers to the variation of genotypes within a species that influences
550 different characteristics among individuals or populations.
- 551 2. **Species Diversity**—Refers to the number of different kinds of species within a given area.
- 552 3. **Ecosystem Diversity**—Refers to the number, relative proportions, and interactions among
553 communities within an ecosystem.
- 554 4. **Landscape Diversity**—Can be defined as the composition of and interactions among
555 ecosystems across a defined landscape.

556 By protecting a mosaic of habitats that support the greatest variety of life and its processes, this
557 INRMP will help perpetuate the form and function of native communities, thus enhancing the
558 long-term viability of each installation and ensuring its sustainability for military operations.

559 The intent of this INRMP is to:

- 560 • Manage for no net loss of the NEARNG capability to support the military mission of
561 each installation;
- 562 • Minimize habitat fragmentation and promote the natural connectivity of habitats;
- 563 • Protect native species and discourage non-native, invasive species;
- 564 • Protect rare and ecologically important species and unique or sensitive environments;

- 565 • Maintain or mimic natural processes;
- 566 • Protect genetic diversity;
- 567 • Restore species, communities, and ecosystems; and,
- 568 • Monitor impacts on biodiversity.

569

570 From these items, objectives and management actions were identified that structure this plan's
571 guidance. However, each of the management strategies described in this INRMP should be
572 monitored so that modifications can be made as conditions change during implementation. The
573 topics of concern involving natural resource constraints to planning and mission operations are
574 presented in Chapter 6.

575

2. GENERAL INFORMATION

2.1 PURPOSE AND SCOPE

576

577 This INRMP provides NEARNG at Camp Ashland Training Site (CATS), Camp Ashland
578 Training Site – Mead (CATS-M), Greenlief Training Site (GTS), and Greenlief Training Site –
579 Silver Creek (GTS-SC) (Figure 2-1) with a description of the installation and its surrounding
580 environment and presents various management practices designed to mitigate negative impacts
581 and enhance the positive effects of the installation’s mission on regional ecosystems.

582 This INRMP integrates all aspects of natural resource management with the rest of the
583 installation’s missions and, therefore, becomes the primary tool for managing the installation’s
584 ecosystems while ensuring the successful accomplishments of the military mission at the highest
585 possible levels of efficiency. The INRMP is a guide for the management and stewardship of
586 natural resources present on the installation. A multiple-use approach will be implemented to
587 allow for the presence of mission-oriented activities, as well as environmental quality through
588 efficient management of natural resources.

589 Specific management practices identified in this INRMP have been developed to enhance and
590 maintain biological diversity within the installations. Specifically, management practices will:

- 591 • Minimize habitat fragmentation and promote the natural pattern and connectivity of
592 habitats;
- 593 • Protect native species and discourage non-native, invasive species;
- 594 • Protect rare and ecologically important areas;
- 595 • Protect unique sensitive environments;
- 596 • Maintain or mimic natural processes;
- 597 • Protect genetic diversity;
- 598 • Restore species, communities, and ecosystems; and,
- 599 • Monitor impacts on biodiversity.

600 Each of the management strategies described in this plan will be monitored so that modifications
601 can be made during implementation if conditions change.

602 Appendix A contains the references and Appendix B contains the list of acronyms and
603 abbreviations utilized in preparing this plan.

604 Figure 2-1. NEARNG Installation Locations

605 2.2 AUTHORITY

606 This INRMP is developed under, and proposes actions in accordance with, the applicable DoD
607 and Army policies, directives, and instructions. AR200-1, *Environmental Protection and*
608 *Enhancement*, provides the necessary direction and instruction for preparing an INRMP. Issues
609 are addressed in this plan using guidance provided under legislation, Executive Orders (EOs),
610 Directives, Manuals, and Instructions that include Department of Defense Manual 4715.03
611 (DODM 4715.03) – *Integrated Natural Resources Management Plan Implementation Manual*,
612 and Department of Defense Instruction 4715.03 (DODI 4715.03) – *Natural Resources*
613 *Conservation Program*, and the provisions of the Sikes Act, as amended (16 United States Code
614 §670a et seq.). Appendix C contains agency consultation and Appendix D summarizes key
615 legislation and guidance used to create and implement this INRMP.

616 2.3 INTEGRATION WITH OTHER PLANS

617 This INRMP is intended to be compatible with other NEARNG planning documents. In
618 preparing this document, other plans consulted are summarized in Appendix E.

619

3. INSTALLATION OVERVIEW

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3.1 LOCATION AND AREA

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3.1.1 Camp Ashland Training Site (CATS)

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CATS is centrally located in eastern Nebraska and is approximately 2 miles northeast of Ashland, Nebraska (Figures 3-1 and 3-2). CATS controls/manages 760.6 acres of land that is subdivided by the Platte River - which encompasses approximately 350 acres within the property boundary - with a west parcel in southeast Saunders County (447.46 acres), and an east parcel in the southwest corner of Sarpy County (313.14 acres). The cantonment area, which spans 110.18 acres, is located on the west side of the Platte River.

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CATS is in Township 13 North, Range 10 East, Sections 18, 19, and 30. CATS is bordered on the north and west by housing developments. Farmsteads and agricultural fields border the east side of the installation. Range Road 10 East parallels the west side of CATS and primary access to the Installation is via Highway 6 located south of the installation.

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3.1.2 Camp Ashland Training Site - Mead (CATS-M)

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CATS-M is in the southeast portion of Saunders County, approximately 3 miles southeast of Mead, Nebraska (Figures 3-3 and 3-4). There are two sites that are considered part of CATS-M, one is the training site that is approximately 1,185 acres and the other is the Unit Training Equipment Site (UTES) that is approximately 11.61 acres and is primarily used for storage and maintenance. The cantonment area, which spans 35.56 acres, is located in the southwest corner of the installation.

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CATS-M is located in Township 14 North, Range 9 East Section 7, 8, 17, and 18 and UTES is located in Township 14 North, Range 8 East Section 14. Both parcels of land are bordered by land owned and managed by University of Nebraska for agricultural research and privately owned and managed for agriculture.

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3.1.3 Greenlief Training Site (GTS)

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GTS is located in east central Adams County and west central Clay County, approximately 3 miles east of Hastings, Nebraska (Figures 3-5 and 3-6). GTS has a total acreage of approximately 3,204.17 acres. The cantonment area, which spans 129.46 acres, is located in the north-central portion of the installation.

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GTS is located in Township 7 North, Range 8 West Sections 19, 30, and 31; Township 7 North, Range 9 West Sections 24, 25, and 36, and Township 6 North Range 8 West Section 5. The southern portion of the property is bordered by the Union Pacific Rail Line, agricultural land, and the Village of Glenvil, Nebraska. The west side of the property is bordered by agricultural land. On the north and east side of the property are excess storage bunkers. These bunkers are used for farm storage and hog confinement and the land surrounding these bunkers is used for grazing and farming.

655 Figure 3-1. CATS Vicinity Map

656 Figure 3-2. CATS Site Location Map

657 Figure 3-3. CATS-M Vicinity Map

658 Figure 3-4. CATS-M Site Location Map

659 Figure 3-5. GTS Vicinity Map

660 Figure 3-6. GTS Site Location Map

661 **3.1.4 Greenlief Training Site - Silver Creek (GTS-SC)**

662 GTS-SC is located in the southeast corner of Nance County, approximately four miles (6.44 km)
663 northwest of Silver Creek, Nebraska (Figures 3-7 and 3-8). The installation has a total of 375
664 acres. Currently, no established cantonment area exists at the installation.

665 GTS-SC is in Township 16 North Range 4 West, Section 24 and is surrounded by a barbed-wire
666 fence with a livestock foot gate across the asphalt drive entrance. The abandoned operation's
667 building is in the center of the parcel. This building was built above ground and covered with
668 soil. The antenna for the communications facility was built on top of the operations building,
669 and diesel generators and a small electrical substation were built on the north side of the mound
670 near the entrance to the operations building. GTS-SC on all sides by pastureland with S 550th St
671 to the north and Prairie Creek to the south.

672 **3.2 INSTALLATION HISTORY**

673 **3.2.1 CATS**

674 NEARNG began holding annual encampments on the banks of the Platte River in 1908. The
675 oldest permanent NEARNG Facility in Nebraska, this installation was the focus of Nebraska
676 National Guard activities from 1908 up until the end of World War II (Larson-Tibesar 1992a). In
677 1916 the federal government purchased 122 acres near Ashland, Nebraska to train Nebraska
678 Militiamen for active wartime duty. By the end of 1917, additional land had been purchased and
679 the installation consisted of 797 acres and was primarily used as a rifle range training facility.

680 Major General Herbert J. Paul, serving as Adjutant General from 1919 to 1939, actively sought
681 to make the installation a permanent facility. During these inter-war times, an increase in federal
682 funding for the development of National Guard facilities allowed for the purchase of an
683 additional 62 acres. The construction of many structures helped make this installation a
684 permanent training facility. Proximity to the Platte River resulted in flooding and other
685 associated problems. Federal funding in 1924 permitted the construction of a levee along the
686 river, target houses, and semi-permanent kitchen and hospital facilities. In 1925 and 1926
687 construction of more buildings and facilities along the levee (now buildings 51 to 58) occurred.
688 Most of these structures still exist today as originally constructed and still serve their original
689 functions. Construction continued into the next decade as the installation fulfilled its role as an
690 army training facility and rifle range (Larson- Tibesar 1992a).

691 The years 1940 to 1942 saw very little activity at the installation. From 1943 to 1945 the Army
692 Air Corps Technical Training Command and state militia used the facility. The end of the 1940s
693 through the late 1950s was a period of reorganization of the National Guard. The 1950s was a
694 "decade of building" and facility improvement. The rifle range was renovated and expanded.
695 The old mess halls were converted into academic halls and sleeping quarters. On 12 November
696 1954, the City of Lincoln obtained an easement on the installation to allow for the construction
697 of water wells, collector pipes, and power lines. In 1957 the Officer Candidate School was
698 created at the installation. Construction in 1958 included the H. J. Paul Army Airfield with two
699 grass runways, a hangar, and a control tower. Additional remodeling to several buildings and a
700 vehicle compound were added by 1960. From the 1970s to the early 1990s little alterations

701 Figure 3-7. GTS-SC Vicinity Map

702

703 Figure 3-8. GTS-SC Site Location Map

704 were made to the installation. During the 1990s, several buildings were constructed, expanded,
705 or renovated to accommodate the new NGB courses and to improve the overall infrastructure.
706 Following a flood in 2019, several buildings in the cantonment area were renovated as was the
707 levee bordering the Platte River. Apart from these building renovation/expansion projects and
708 the water crossing and levee project, there has been few alterations to the installation from 2000
709 to present.

710 **3.2.2 CATS-M**

711 Settlement of the area took place primarily in the late 1860s with the acquisition of homesteads
712 through the Homestead Act of 1862 or the purchase of railroad lands (Larson-Tibesar Associates
713 Inc. 1992a and 1992b). In 1942, the DoD acquired the installation for the Naval Ordnance Plant
714 (NOP) and the Nebraska Defenses Corporation operated it until 1945 (Woodward-Clyde
715 Consultants 1996; Commodore Advanced Sciences Inc 1998). The central location and the
716 direct access to railroad lines made the NOP a principal location for the production of
717 ammunition during World War II. The plant produced approximately three million bombs and
718 boosters at four load lines and the Bomb Assembly Area (Hartman 1994; Woodward-Clyde
719 Consultants 1996). NOP production operations ended in 1945 and the installation was placed on
720 an inactive status. From 1945 to 1949, the Army utilized the NOP to store, rework and dispose
721 of bulk explosives and ammunitions (Woodward- Clyde Consultants 1996).

722 The NOP reactivated in 1950 for the temporary production of bombs, shells, rockets, warheads,
723 block cast Trinitrotoluene (TNT), and supplementary charges and boosters for use in the Korean
724 Conflict. In 1956, the Army placed the NOP on standby status and declared it excess property.
725 After this status was established, private institutions and individuals purchased approximately
726 10,200 acres of the land. The DoD retained the remaining portions of the land (Woodward-
727 Clyde Consultants 1996).

728 In the early 1960s, the area transferred to the United States Air Force (USAF) and developed into
729 an Atlas Missile Site. The installation included missile launchers, ammunition bunkers and the
730 guided missile field maintenance shop (Commodore Advanced Sciences Inc 1998).

731 In March of 1965, the property transferred from the USAF to the NEARNG. From that time on,
732 the NEARNG has used the installation for training. The ICRMP contains a detailed history of
733 the facilities at CATS-M.

734 **3.2.3 GTS**

735 In the late 1930s President Roosevelt and several of the country’s top civilian and military
736 leaders foresaw impending U.S. involvement in war. This foresight was affirmed with the
737 beginning of hostilities in Europe in September 1939 and led to a declaration of a “state of
738 limited emergency” by President Roosevelt on 8 September 1939. An EO was given for the
739 immediate bolstering of the armed forces and an increase in the production of war materials. As
740 part of its response to this order, the U.S. Navy began expanding its existing naval ammunition
741 depots in 1940. The U.S. became involved in the war and by early 1942 it was clear that the
742 existing storage facilities were being taxed. Road and rail links to and from existing Naval
743 depots on the coasts were impeding the gains made by the expansion of the existing facilities.

744 To alleviate the strain on coastal ordnance storage facilities, two identical “continental depots”
745 were constructed, one in McAlester, Oklahoma and the other in Hastings, Nebraska. The two
746 sites had the benefit of similar geography, which allowed for the development and use of a single
747 engineering and design plan, saving time and money during design and construction.

748 The design of the McAlester and Hastings depots called for the construction of 707 magazines,
749 70 storage buildings, 2 large-caliber and 2 medium-caliber loading plants, and a two-line bomb
750 and mine-filling plant (Penny 1992). Approximately 76 square miles (196.8 square km) near the
751 town of Hastings were appropriated from local farmers by the right of eminent domain and
752 construction started immediately on what was to become known as one of the two “mid-
753 continental depots”. The first phase was completed in nine months and, after a period of tooling
754 and training of personnel; the first bomb was loaded on 4 July 1943. The depot ran at full
755 capacity until the end of the war, and the filling plant and storage depot were supplemented by
756 the construction of two 20-milimeter (mm) fillings houses constructed in late 1942 to meet the
757 demands of a changing war.

758 In late 1943, the Navy’s depots nationwide shifted emphasis from storage to production. As a
759 result, two 40-mm shell plants, two 20-mm shell plants, and two medium caliber case filling
760 plants were constructed at the Hastings Naval Ammunition Depot in late 1943. The Depot
761 underwent additional improvements in 1943 that included the construction of 333 additional
762 storehouses, 30 inert materials storehouses, ignition filling and quilting houses, one rocket motor
763 filling plant, bag sewing buildings, barracks, and auxiliary service buildings. In 1944 the
764 facilities for the loading of TNT were retooled for loading with amatol (Penny 1992).

765 Over 13 million cubic yards of concrete were poured as part of the initial construction and, by
766 the end of the war, more than 15,000 structures, 227 miles of highway, and 115 miles of
767 railroads had been built at the Hastings Depot. After the war, activity at the depot dropped
768 significantly. However, the Depot became active again during the Korean Conflict, when
769 employment rose to 3,000 (in 1951) from an all-time low of 190 in 1949. At the end of the
770 Korean Conflict, activity at the plant dropped off drastically again and the Navy began selling off
771 portions of the Depot in 1959; by 1967 the Depot was officially closed.

772 The NEARNG Hastings Training Site was officially renamed the Francis S. Greenlief National
773 Guard Training Site in March 2000. The new name represents a memorial to Lieutenant General
774 (LTG) (NE) Francis S. Greenlief, a Hastings native, who served nearly half of his extensive
775 military career with National Guard units assigned to Nebraska. In July of 1940, Francis
776 Greenlief enlisted in Company G 134th Infantry Regiment in Hastings, Nebraska. He
777 subsequently mobilized with the 35th Division for World War II. He was wounded four times
778 while fighting in the Normandy, Northern France, Rhineland, and Ardennes Campaigns.
779 Greenlief was released from active duty in January 1946 and returned to Hastings, where he
780 served with the NEARNG until being ordered to active duty in Washington, D.C. He served in a
781 number of high-level positions with the NGB and on 1 September 1971 Major General Greenlief
782 was sworn into office as Chief of the NGB. He retired on 1 July 1974. After his retirement, he
783 continued to be a strong supporter of the National Guard. LTG (NE) Greenlief died on 19
784 December 1999.

785 **3.2.4 GTS-SC**

786 The Strategic Air Command (SAC) of the USAF acquired the 375-acre GTS-SC on 26 May
787 1965, to be used as an antenna site. After acquiring the installation, SAC constructed a 1,240-
788 foot antenna and associated ancillary facilities on the installation. The ancillary facilities
789 included an underground bunker, diesel generators, parking areas, storage areas, electrical, water,
790 sewer, and telephone systems, and personnel housing. Offutt Air Force Base (AFB) operated
791 this installation as a communication facility from late 1967 through June 1995. With the closing
792 of SAC at Offutt AFB in 1992, the communication facility was no longer needed by the USAF,
793 and the installation was deactivated. The antenna was removed, and the operation's building (an
794 aboveground bunker) was sealed onsite. All other buildings were abandoned onsite.

795 During the deactivation process, six underground storage tanks were excavated and removed in
796 1995. Four of the tanks were 25,000-gallon, single-wall steel tanks and previously contained
797 diesel fuel. The other two tanks were 750-gallon, single-wall steel tanks, containing new and
798 used oil. Twenty-three soil samples were collected from below the fuel lines after all piping was
799 removed on 27 and 28 July 1995 and analyzed for total recoverable petroleum hydrocarbons
800 (TRPH). Results showed concentrations of TRPH from below the reporting limit of 20.0 parts
801 per million (ppm) to 627 ppm. These results suggest a petroleum release may have occurred at
802 that time. However, further investigation did not indicate the presence of soil or groundwater
803 contamination. The Nebraska Department of Environment and Energy (NDEE) in 2000
804 determined that remediation would not be required at GTS-SC (UG# 030896-NM-0830).

805 In addition, as part of the deactivation process, the USAF removed the antenna, removed and
806 abated all asbestos from the buildings, and cleaned up lead from an ad-hoc small arms range.
807 GTS-SC was declared "excess property" by the Air Force in May of 1998. In support of this
808 action, Offutt AFB prepared an environmental assessment entitled Environmental Assessment
809 for the Declaration of Excess for Silver Creek Facilities and an Environmental Baseline Survey
810 Report for the Declaration of Excess for Silver Creek Facilities. In 2012, the USAF transferred
811 the property to the NEARNG.

812 **3.3 MILITARY MISSIONS**

813 The NEARNG has three primary, interrelated missions (federal, state, and community):

- 814 • **Federal** - to command and control ARNG units within the state and to provide a trained
815 and equipped force capable of immediate expansion to war strength that is available for
816 service in times of war, peacetime operations, or national emergency.
- 817 • **State** - to provide command and control to civil authorities when required; to aid civil
818 authorities in the protection of life and property; and to preserve peace, order, and public
819 safety under the direction of the governor.
- 820 • **Community** - to be an active participant in domestic concerns through local, regional,
821 and statewide initiatives and programs.

822 When called upon by the Governor, through the State mission, the NEARNG supports civil
823 authorities in the protection of property and the preservation of life, peace, order, and public
824 safety. When called upon by the President, through the federal mission, the NEARNG provides

825 highly trained, well-equipped personnel and units available to assist in times of war or national
826 emergency.

827 **3.3.1 CATS**

828 Much of the training conducted at CATS is orientated around basic soldiering skills for
829 dismounted troops. This includes, but is not limited to, basic combat team maneuvers, land
830 navigation (map and compass training), and field training exercises. Complementary to the
831 maneuver and field training, bivouac sites are erected throughout CATS for various bodies of
832 troops. These sites are established throughout the camp as needed and their size can vary
833 substantially. Live fire small arms training and qualification historically existed at CATS.
834 However, these ranges are currently inactive.

835 **3.3.2 CATS-M**

836 CATS-M has two training areas, CATS-M and the UTES #2. The CATS-M provides an area for
837 squad/platoon/company-sized units' field training exercises (FTX), driver's training, land
838 navigation courses, and a tactical training area for NEARNG aviation assets. The UTES
839 provides wheel and track vehicle maintenance; logistical support; maintenance training;
840 wheel/track vehicle parking; petroleum, oil, and lubricant (POL) storage; and storage facilities.
841 Most of the training conducted at the MTA is orientated around combat service support unit
842 maneuver training.

843 Training activities at CATS-M include wheeled/tracked vehicle tactical maneuvers, Military
844 Operations Urbanized Terrain (MOUT) operations, UTES for maintenance training, dismounted
845 day/night land navigation, helicopter training area, individual and collective task training/testing,
846 and communications operations.

847 **3.3.3 GTS**

848 Much of the training conducted at GTS is orientated around weapons qualification and basic
849 soldiering skills for dismounted troops, with some tactical training for NEARNG aviation assets.
850 This includes, but is not limited to, weapons firing, individual soldier's training, basic combat
851 team maneuvers, land navigation (map and compass training), and field craft. GTS is regularly
852 used for live firearms training and qualification. These ranges are currently active. Access-
853 controlled fans and buffer zones are also required for safety. Helicopter training also occurs on
854 the Installation. Complementary to the maneuvering and field craft training, bivouac sites are
855 erected throughout GTS for various bodies of troops. These sites are established throughout the
856 camp as needed and their size can vary substantially. Bivouac site requirements depend on the
857 unit size, type of training being conducted, and the degree of realism desired by the training staff.

858 **3.3.4 GTS-SC**

859 GTS-SC is currently used as a remote facility to train troops for mobilization by helicopter
860 and/or vehicle. This training includes helicopter landing, unloading/loading, and take-off zones;
861 and off-road vehicle navigation, maintenance, and fueling training.

862

4. PHYSICAL ENVIRONMENT

863

4.1 CLIMATE

864

4.1.1 CATS

865 Ashland, Nebraska climate is warm during summer when average temperatures tend to be in the
866 70's and very cold during winter when temperatures tend to be in the 20's. The warmest month
867 of the year is July with an average maximum temperature of 89 degrees Fahrenheit, while the
868 coldest month of the year is January with an average minimum temperature of 13 degrees
869 Fahrenheit. Temperature variations between night and day tend to be moderate during summer
870 with a difference that can reach 27 degrees Fahrenheit, and moderate during winter with an
871 average difference of 23 degrees Fahrenheit (US Climate Data 2021).

872 The annual average precipitation at Ashland is 30.88 inches. Rainfall is fairly evenly distributed
873 throughout the year. The wettest month of the year is May with an average rainfall of
874 approximately 4.80 inches and the driest month is January 0.78 inches of precipitation (US
875 Climate Data 2021).

876

4.1.2 CATS-M

877 Mead, Nebraska climate is warm during summer when temperatures tend to be in the 70's and
878 very cold during winter when temperatures tend to be in the 20's. The warmest month of the
879 year is July with an average maximum temperature of 87 degrees Fahrenheit, while the coldest
880 month of the year is January with an average minimum temperature of 12 degrees Fahrenheit.
881 Temperature variations between night and day tend to be moderate during summer with a
882 difference that can reach 23 degrees Fahrenheit, and moderate during winter with an average
883 difference of 21 degrees Fahrenheit (US Climate Data 2021b).

884 The annual average precipitation at Mead is 29.39 Inches. Rainfall is fairly evenly distributed
885 throughout the year. The wettest month of the year is June with an average rainfall of 4.55
886 inches and the driest month is January averaging 0.57 inches of precipitation (US Climate Data
887 2021b).

888

4.1.3 GTS

889 Hastings, Nebraska climate is warm during summer when temperatures tend to be in the 70's and
890 very cold during winter when temperatures tend to be in the 20's. The warmest month of the
891 year is July with an average maximum temperature of 87 degrees Fahrenheit, while the coldest
892 month of the year is January with an average minimum temperature of 14 degrees Fahrenheit.
893 Temperature variations between night and day tend to be moderate during summer with a
894 difference that can reach 26 degrees Fahrenheit, and moderate during winter with an average
895 difference of 22 degrees Fahrenheit (US Climate Data 2021c).

896 The annual average precipitation at Hastings is 27.99 inches. Rainfall is fairly evenly distributed
897 throughout the year. The wettest month of the year is May with an average rainfall of 4.61
898 inches and the driest month is January averaging 0.58 inches of precipitation (US Climate Data
899 2021c).

900 4.1.4 GTS-SC

901 Genoa, Nebraska climate is warm during summer when temperatures tend to be in the 70's and
902 very cold during winter when temperatures tend to be in the 20's. The warmest month of the
903 year is July with an average maximum temperature of 86 degrees Fahrenheit, while the coldest
904 month of the year is January with an average minimum temperature of 13 degrees Fahrenheit.
905 Temperature variations between night and day tend to be moderate during summer with a
906 difference that can reach 26 degrees Fahrenheit, and moderate during winter with an average
907 difference of 23 degrees Fahrenheit (US Climate Data 2021d).

908 The annual average precipitation at Genoa is 28.82 Inches. Rainfall is fairly evenly distributed
909 throughout the year. The wettest month of the year is June with an average rainfall of 4.68
910 Inches and the driest month is January averaging 0.60 inches in January (US Climate Data
911 2021d).

912 4.2 LANDFORMS**913 4.2.1 CATS**

914 CATS lies within two different physiographic regions. One of the regions that CATS is in is
915 called the "Valleys" which is characterized by flat land consisting of stream-deposited silt, clay,
916 sand, and gravel materials found along major streams (CSD 1973). The other regions that CATS
917 is located within are the Glaciated and Loess Plains Regions. The majority of CATS is located
918 on land composed of alluvial deposits and unconsolidated glacial till (NEARNG 1993; United
919 States Army Corps of Engineers [USACE] 1985).

920 The watershed used for the installation and the surrounding area is the Lower Platte River Basin.
921 The Lower Platte River Basin reaches a maximum of 1,075 ft above sea level. CATS maintains
922 flood prevention by use of levees and sand ridges constructed on the east side of the Platte River.
923 Topographic map for CATS shown in Figure 4-1.

924 4.2.2 CATS-M

925 CATS-M lies within the Glaciated and Loess Plains Regions of the Great Plains (Doering and
926 McFaul 1991; NEARNG 1993). It is located on a terrace that used to be a former channel of the
927 Platte River known as Todd Valley. The terrace is approximately 6-8 miles wide, 30 miles long,
928 and about 50 ft above river level. Topographic map for CATS-M shown in Figure 4-2.

929 4.2.3 GTS

930 GTS is located on flat upland areas in the "Plains" classification of Nebraska topographic region.
931 The land is composed of sandstone or stream-deposited silt, clay, sand, and gravel that is covered
932 by wind-deposited silt (CSD 1973). GTS is located on a gently sloping upland plain with low to
933 moderate local relief. Topographic map for GTS shown in Figure 4-3.

934

935 Figure 4-1. CATS Topographic Map

936 Figure 4-2. CATS-M Topographic Map

937 Figure 4-3. GTS Topographic Map

938 **4.2.4 GTS-SC**

939 GTS-SC is located in the “Valleys” region, characterized by flat land consisting of stream-
940 deposited silt, clay, sand, and gravel materials found along major streams. Directly east of the
941 installation is an isolated “Sand Hill” topographic region characterized as low to high dunes of
942 sand stabilized by grass cover. The dunes are mantle stream-deposited silt, sand, and gravel, and
943 sandstone. While GTS-SC does not fall within the Sand Hill region, it contains many similar
944 properties (CSD 1973). Topographic map for GTS-SC shown in Figure 4-4.

945 **4.3 GEOLOGY AND SOILS**946 **4.3.1 CATS**

947 Saunders and Sarpy County, the location of CATS, were described by the USDA Soil
948 Conservation Service (SCS) in 1965 and 1975 respectively (USDA SCS 1965; USDA SCS
949 1975). These counties are dominated by Inglewood loamy fine sand, Lex loam, Platte fine sandy
950 loam, silty clay, and loamy fine sand. The land CATS is located on is primarily made up of Lex
951 loam which, after being drained, is rated Prime Farmland. A soils map for CATS is shown in
952 Figure 4-5.

953 Inglewood loamy fine sands are very deep, moderately well drained soils formed in sandy
954 alluvium on flood plains. They are rarely flooded, moderately well drained and have rapid
955 permeability and very low surface runoff. Depth to the seasonal high-water table ranges from 3
956 ft (0.91 m) in wet years to about 6 ft (1.83 m) in dry years.

957 Lex loams consist of very deep, somewhat poorly drained soils on flood plains, formed in 20 to
958 40 inches (50.8 to 101.6 cm) of loamy alluvium deposited over coarse sand or gravelly sand.
959 Permeability is moderate to moderately slow in the surface layers and very rapid in the
960 substratum. Slopes range from 0 to 2 % and runoff is slow. The seasonal high water table
961 ranges from 1 to 3 ft (0.3 to 0.91 m) and is highest during winter and early spring. During
962 midsummer it commonly recedes to 3 to 6 ft (0.91 to 1.83 m). Flooding is rare or occasional.

963 Platte fine sandy loams are shallow soils formed in sandy and loamy alluvium deposited over
964 coarse sand or gravelly sand on river valley flood plains. Slopes range from 0 to 3 % and depth
965 to the seasonal high water table is 1 to 3 ft (0.3 to 0.91 m). The water table is highest in the
966 winter and early spring and usually recedes to depths of 4 ft (1.22 m) or more by late summer.

967 These soils are somewhat poorly drained, with slow runoff and moderate permeability; they may
968 occasionally flood.

969 Platte soils are formed in old, abandoned river channels and low bottomlands adjacent to the
970 Platte River. Surface layer texture ranges from silty clay to loamy fine sand over a mixed coarse
971 sand and gravel layer. Runoff is slow and flooding is the main hazard. The water table is at its
972 highest level in winter and early in spring. During the summer, however, the water table can
973 drop to a depth of 60 inches (152.4 cm).

974

975 Figure 4-4. GTS-SC Topographic Map

976 Figure 4-5. CATS Soils Map

977 4.3.2 CATS-M

978 Soils in Saunders County were described by the Soil Conservation Service in 1965 (USDA SCS
979 1965). While the most dominant soils in Saunders County are Silt loams and silty clay loams,
980 the soils the predominately make up CATS-M are Tomek silt loam, Yutan silty clay loam, and
981 Filbert silt loam. Tomek silt loam and Yutan silty clay loam are rated Prime Farmland soils as is
982 and Filbert silt loam is also rated Prime Farmland once it has been drained. A soils map for
983 CATS-M is shown in Figure 4-6.

984 The Tomek series consists of very deep, well-drained, moderately slowly permeable silt loam
985 soils found on loess-capped stream terraces. Sandy materials at depths of 6 to 20 ft (1.8 to 6.1
986 m) underlie this soil in most areas.

987 The Yutan series consists of very deep, well-drained, moderately slowly permeable silty clay
988 loam soils on uplands and in valleys. These soils formed in loess and are located on convex
989 shoulders, back slopes, and narrow summits of uplands and high stream terraces.

990 The Filbert series consists of very deep, somewhat poorly drained, very slowly permeable silt
991 loam soils formed in loess. They are located in open depressions on stream terraces on 0 to 1
992 percent slopes and have slow runoff.

993 4.3.3 GTS

994 Soils in Adams and Clay County were described by USDA SCS in 1974 and 1981, respectively
995 (USDA SCS 1974; USDA SCS 1981). According to the surveys conducted by the SCS, GTS
996 consists of 12 different soil types, with the majority being tilt loams (~88%) and the rest being
997 silty clay loams (~12%). Almost all of the soils on GTS have been identified as Prime Farmland
998 by the Natural Resources Conservation Service (NRCS 1996). A soils map for GTS is shown in
999 Figure 4-7.

1000 All the soil units, with the exception of the silty clay loams, occur on nearly level land and are
1001 deep and moderately well to well drained. They have slow to moderately slow permeability and
1002 high water-holding capacity. Erosion potential is low. Soils of these types are most suited to
1003 agricultural purposes – they are easily to work and well suited to irrigation.

1004 4.3.4 GTS-SC

1005 The general geologic setting of the area includes the fine eolian sand and coarser alluvial sands
1006 and gravels of the Platte River overlying the chalk bedrock of the Cretaceous Age Niobrara
1007 Formation. The surface sands are very loose and light brown. A soils map for GTS-SC is shown
1008 in Figure 4-8.

1009 Soils in Nance County were described by USDA SCS in 1960 (USDA SCS 1960). GTS-SC is
1010 categorized as Sandy Uplands with deep sandy soils that have developed on eolian sand blown
1011 from streams bottoms. The fine sands are vulnerable to wind erosion and blowout development
1012 if not vegetated.

1013

1014 Figure 4-6. CATS-M Soils Map

1015 Figure 4-7. GTS Soils Map

1016 Figure 4-8. GTS-SC Soils Map

1017 At GTS-SC soils are primarily loamy fine sands of various slopes with the following soil series
1018 present:

- 1019 • Els loamy fine sand, 0 to 3 percent slopes at 26.3 percent of project area
- 1020 • Ipage loamy fine sand, 0 to 3 percent slopes at 35.7 percent of project area
- 1021 • Thurman loamy fine sand, 1 to 3 percent slopes at 23.7 percent of project area.

1022 These three-soil series make up 85 percent of the project area. Other soils accounting for 15
1023 percent of the installation include: Valentine fine sand, 3 to 17 percent slopes, eroded; Meadin
1024 loamy fine sand, 0 to 2 percent slopes; Elsmere loamy fine sand, 0 to 3 percent slopes; and Boel
1025 loamy fine sand, occasionally flooded. Of the three main soils present, all are classified as
1026 partially hydric soils. The other soils are either partially hydric or not hydric (Natural Resources
1027 Conservation Service [NRCS] 2012).

1028 **4.4 HYDROLOGY**

1029 **4.4.1 Surface Water**

1030 Nebraska's surface water generally drains eastward from higher elevation in the western part of
1031 the state. There are thirteen major river basins in Nebraska and all surface water in Nebraska
1032 eventually drains into the Missouri River.

1033 **4.4.1.1 CATS**

1034 CATS is located along the west side of the Platte River. The Platte River is the closest large
1035 body of surface water in close proximity to CATS. Salt Creek is the other body of water that
1036 runs closest to the installation. Salt Creek is located approximately one mile north of the
1037 installation (Figure 4-9).

1038 CATS has the Platte River floodplain running through the middle of the installation and in 1967
1039 the USACE built a low levee along the river. This levee was built to try to protect the buildings
1040 on the installation during floods since the installation is located directly along the river and was
1041 reconstructed following a large flood in 2019. The levee was reinforced in 2021. Platte River
1042 flooding is common in late winter and early spring due to ice jams that obstruct the flow of river
1043 water past the installation.

1044 Following the 2019 flood, buildings that were affected by the flood were demolished and
1045 consolidated into the CATS Rebuild Military Construction (MILCON). As a part of this
1046 MILCON, all new and reconstructed structures were built on stilts with the lowest finished floor
1047 elevated 1 ft. above the base flood elevation (BFE). Keeping these buildings above the BFE will
1048 ensure that these structures will remain intact and available to support the military mission in the
1049 event of another 100-year flood. All structures that were unaffected by the flood were deemed
1050 unnecessary to put on stilts and left unchanged due to their higher elevation.

1051 There are five different wetland types located on the installation totaling approximately 15.83
1052 acres. The majority of the wetlands are located within the Platte River floodplain. This is due to

1053 the topographic depressions that collect and hold water for long periods of time during the
1054 growing and rainy seasons.

1055 **4.4.1.2 CATS-M**

1056 CATS-M has three main surface waterbodies near or on the installation property and is also
1057 located in the Salt Watershed (Figure 4-10). The Platte River is located five miles east of CATS-
1058 M. There is also a creek, Johnson Creek, that runs directly through the installation and
1059 eventually drains into Johnson Creek Reservoir. Johnson Creek Reservoir is located one mile
1060 southeast of the installation.

1061

1062 Figure 4-9. CATS Surface Water Features

1063 Figure 4-10. CATS-M Surface Water Features

1064 Approximately 21.03 acres of wetland are present at CATS-M, they are primarily located in
1065 areas of depressed topography as well as places where ponding or sub-surface saturation is
1066 occurring. The most prevalent classification of wetland found on-site was palustrine emergent
1067 (PEM). This category includes areas such as marshes and wet meadows.

1068 **4.4.1.3 GTS**

1069 GTS lacks many surface water resources (Figure 4-11). The installation is located in the
1070 northern part of the Little Blue River drainage basin that provides the headwaters of the Big
1071 Sandy Creek. There are multiple drainages that cross the installation at intermittent locations
1072 originating within a quarter mile from the installation. These drainages are almost completely
1073 reliant on precipitation to have any stream flow.

1074 Approximately 21.43 acres of wetland is present at GTS. The most prevalent classification of
1075 wetland was PEM. The majority of wetlands identified were located in areas of depressed
1076 topography and swales in the landscape.

1077 **4.4.1.4 GTS-SC**

1078 GTS-SC is located in the Middle Platte River basin and does not contain significant amounts of
1079 surface water resources (Figure 4-12). GTS-SC has two main sources of surface water resource.
1080 The first is Prairie Creek which runs approximately 200 yards south of the installation. Prairie
1081 Creek is also the main stormwater catchment for GTS-SC. The other source of surface water is
1082 the wetlands that are located on the installation.

1083 There are 18 pockets of wetlands that have been identified at GTS-SC during a preliminary
1084 wetland assessment that was conducted on-site, totaling approximately 61.03 acres.

1085 **4.4.2 Groundwater**

1086 **4.4.2.1 CATS**

1087 CATS is located within the Southeastern Nebraska Glacial Drift groundwater region.
1088 Groundwater in this region can range from 50 to 200 feet depending on topographic elevation,
1089 irrigation, and precipitation levels (CSD 1998). The average depth for the Southeastern
1090 Nebraska Glacial Drift is approximately 79 feet with the quality being good to excellent
1091 (NEARNG 1993).

1092 There are two aquifers located under CATS (the paleovalley alluvial aquifer and the Dakota
1093 aquifer). The shallowest aquifer is the paleovalley aquifer which ranges in thickness from
1094 approximately 50-100 feet. The Dakota aquifer is interconnected to the paleovalley aquifer and
1095 ranges in thickness from 50-500 feet. Water from these interconnected aquifers is used for
1096 irrigation, industrial, commercial, domestic, and public water supplies (Environmental Resources
1097 Management, Inc. 1998).

1098 CATS has two shallow groundwater wells that have a capacity of 144,000 gallons per day.
1099 These wells are untreated, as the water coming from them meets all state and federal water
1100 quality standards. These wells serve at least 25 individuals for at least six months of the year.

1101 Figure 4-11. GTS Surface Water Features

1102 Figure 4-12. GTS-SC Surface Water Features

1103 CATS also has thirty other wells that serve other purposes and are divided into different classes
1104 (monitoring wells, City of Lincoln Wells, water supply wells, and well pump wells) (NEARNG
1105 1993).

1106 **4.4.2.2 CATS-M**

1107 CATS-M is located within the Southeastern Nebraska Glacial Drift groundwater region.
1108 Groundwater in this region can range from 50 to 200 feet depending on topographic elevation,
1109 irrigation, and precipitation levels (CSD 1998). The average depth for the Southeastern
1110 Nebraska Glacial Drift is approximately 79 feet with the quality being good to excellent
1111 (Commodore Advanced Sciences 1998).

1112 The primary groundwater resources at CATS-M come from groundwater wells, storage, and a
1113 cast iron pipe distribution system supplied by the ARDC and constructed in 1942 which is still
1114 used today. CATS-M also has 18 monitoring wells located on the installation which are
1115 managed and monitored by USACE Kansas City District, a wastewater treatment system, and a
1116 septic system (Master Plan 1995). An environmental concern associated with CATS-M is
1117 contaminated soil and groundwater. The plume extends southeast from the installation and
1118 originates from the former Nebraska Ordnance Plant and Atlas Missile operations.

1119 **4.4.2.3 GTS**

1120 The primary aquifer that GTS is located on is the Pleistocene sands and gravels. The aquifer is
1121 under constant stress from constant industrial and municipal well pumping and also major
1122 irrigation well use during the summer months. Ground water level is usually found around 100-
1123 150 feet depending on topography, irrigation, and precipitation. Ground water level is also
1124 usually found to be significantly higher the closer you are to major drainages (HWS 1996).

1125 Contaminants have been discovered that were left over from a previous NAD. This has caused
1126 GTS to become involved in several EPA hazardous waste investigations. Toxins found at a
1127 Superfund site located west of GTS have migrated in the groundwater onto GTS property. There
1128 are also other neighboring properties that have been found to have contaminants from the former
1129 NAD site (HWS 1996).

1130 The current groundwater that is pumped from GTS groundwater is of the calcium bicarbonate
1131 type which attributes to the “hardness” of the water. Because of the quality and quantity of the
1132 water being pumped from the installation, it is used for most types of well pumping including
1133 domestic, municipal, industrial, and irrigation (HWS 1996). In 2021 the drinking water on the
1134 installation was tested and high levels of nitrates were detected. A reverse osmosis filtration
1135 system was installed to mitigate these concentrations.

1136 **4.4.2.4 GTS-SC**

1137 The primary aquifer GTS-SC is located on bedrock of the Niobrara Formation (Groundwater
1138 Atlas of Nebraska 1986). The depth of the groundwater is approximately 10 feet below the
1139 surface. The thickness of the aquifer is approximately 100 feet. Generally, the flow of
1140 groundwater is southeast towards the Platte River (WCFS 1998).

1141 **5. ECOSYSTEMS AND THE BIOTIC ENVIRONMENT**1142 **5.1 VEGETATION**1143 **5.1.1 Historic Vegetative Cover**1144 **5.1.1.1 CATS**

1145 Before the area that the current installation is on was tampered with, grasslands dominated the
1146 landscape. Sod-forming grasses and bunchgrasses were found throughout most of the uplands
1147 and in large river valleys. The valleys supported tallgrass prairies of big bluestem (*Andropogon*
1148 *gerardii*), Indiangrass (*Sorghastrum nutans*), porcupinegrass (*Hesperostipa spartea*), switchgrass
1149 (*Panicum virgatum*), and prairie dropseed (*Sporobolus heterolepis*), as well as sedges (*Carex*
1150 *spp.*) and lowland grasses such as Canada wildrye (*Elymus canadensis*) and prairie cordgrass
1151 (*Spartina pectinata*). Little bluestem (*Schizachyrium scoparium*) was also common in the area
1152 but mostly found in dryer locations. This area was also known for periodically burning which
1153 would help maintain species diversity.

1154 Forested areas were more limited due to the frequent prairie fires which would restrict growth.
1155 Forested areas in flood plain areas were also limited due to the floods that would continually
1156 replace the riparian areas. Due to the amount of prairie wildfires and floods Riparian Deciduous
1157 Forest was the dominant forest community in the area.

1158 **5.1.1.2 CATS-M**

1159 Before the area that the current installation is on was tampered with, grasslands dominated the
1160 landscape. Sod-forming grasses and bunchgrasses were found throughout most of the uplands
1161 and in large river valleys. The valleys supported tallgrass prairies of big bluestem, Indiangrass,
1162 porcupinegrass, switchgrass, and prairie dropseed, as well as sedges and lowland grasses such as
1163 Canada wildrye and prairie cordgrass. Little bluestem was also common in the area but mostly
1164 found in dryer locations. This area was also known for periodically burning which would help
1165 maintain species diversity.

1166 Forested areas were more limited due to the frequent prairie fires which would restrict growth.
1167 Forested areas in flood plain areas were also limited due to the floods that would continually
1168 replace the riparian areas. Due to the amount of prairie wildfires and floods Riparian Deciduous
1169 Forest was the dominant forest community in the area.

1170 **5.1.1.3 GTS**

1171 Before the area that the current installation is on was tampered with, grasslands dominated the
1172 landscape. Mixed grass prairies, with tall grass prairies to the east and short grass prairies to the
1173 west, were the dominant plant communities found in the area GTS is currently on. Tall grass
1174 prairies tend to dominate moister sites while shortgrass prairies dominate drier areas. Prominent
1175 species included big bluestem, little bluestem, blue grama (*Bouteloua gracilis*), sideoats grama
1176 (*Bouteloua curtipendula*), buffalograss (*Bouteloua dactyloides*), green needlegrass (*Nassella*
1177 *viridula*), porcupinegrass, Junegrass (*Koeleria macrantha*), needle-and-thread grass
1178 (*Hesperostipa comata*), plains muhly (*Muhlenbergia cuspidata*), purple three-awn (*Aristida*

1179 *purpurea*), rough dropseed (*Sporobolus clandestinus*), and western wheatgrass (*Pascopyrum*
1180 *smithii*). Major forbs included several locoweeds (*Astragalus* spp. and *Oxytropis* spp.),
1181 milkvetches (*Astragalus* spp.), prairie coneflower (*Ratibida columnifera*), prickly-pear cactus
1182 (*Opuntia macrorhiza*), and yucca (*Yucca glauca*) on well- drained soils.

1183 **5.1.1.4 GTS-SC**

1184 Before the area that the current installation is on was tampered with, grasslands dominated the
1185 landscape. Mixed grass prairies, with tall grass prairies to the east and short grass prairies to the
1186 west, were the dominant plant communities found in the area GTS-SC is currently on. Tall grass
1187 prairies tend to dominate moister sites while shortgrass prairies dominate drier areas. Prominent
1188 species included big bluestem, little bluestem, switchgrass, and Indiangrass. Lower floodplain
1189 valleys were dominated by needle-and-thread grass, prairie sandreed (*Calamovilfa longifolia*),
1190 little bluestem, and blue grama.

1191 **5.1.2 Current Vegetative Cover**

1192 Most training land in Nebraska that used to be dominated by grassland has been plowed up and
1193 converted for other uses. The majority of Nebraska that used to be known for its rolling hills and
1194 tall and short-grassland areas has been converted into cropland or has been heavily grazed as
1195 rangeland and no longer represents the vegetative communities that used to dominate the area.
1196 The few areas where you will still be able to find historic native vegetative communities are
1197 areas of steep topography, along streams and wetlands, land unsuitable for agriculture, and on
1198 nature reserves.

1199 **5.1.2.1 CATS**

1200 At CATS the previous area known for tallgrass prairie has been converted due to haying and
1201 mowing and the introduction of smooth brome (*Bromus inermis*) and Kentucky bluegrass (*Poa*
1202 *pratensis*). Kentucky bluegrass and smooth brome are the prominent species found on the
1203 installation as well as buffalograss and several bristlegass species (*Setaria* spp.). Areas with
1204 little grass are dominated by weedy forbs such as dandelion (*Taraxacum officinale*), common
1205 yellow woodsorrel (*Oxalis stricta*), and curly dock (*Rumex crispus*). Some of the noxious weeds
1206 that can be found in the area include Canada thistle (*Cirsium arvense*), diffuse and spotted
1207 knapweed (*Centaurea diffusa* and *C. stoebe*), leafy spurge (*Euphorbia esula*), musk thistle
1208 (*Carduus nutans*), common reed (*Phragmites australis*), plumeless thistle (*Carduus*
1209 *acanthoides*), and purple loosestrife (*Lythrum virgatum* and *L. salicaria*).

1210 Forested areas are dominated primarily by eastern cottonwood (*Populus deltoides*), green ash
1211 (*Fraxinus pennsylvanica*), red mulberry (*Morus rubra*), honeylocust (*Gleditsia triacanthos*),
1212 eastern red cedar (*Juniperus virginiana*), and elms (*Ulmus* spp.). Other forest species found on
1213 the installation include northern catalpa (*Catalpa speciosa*), hackberry (*Celtis occidentalis*),
1214 silver maple (*Acer saccharinum*), willow (*Salix* spp.) and boxelder (*Acer negundo*).

1215 Eastern cottonwood, silver maple, white mulberry (*Morus alba*), red mulberry, green ash, false
1216 indigo (*Amorpha fruticosa*), buttonbush (*Cephalanthus occidentalis*), redosier dogwood (*Cornus*
1217 *sericea*), water smartweed (*Polygonum amphibium*), reed canary grass (*Phalaris arundinacea*),

1218 common reed, and prairie cordgrass dominate wetland areas within installation. Vegetative
1219 communities at CATS are shown in Figure 5-1.

1220 CATS currently leases 114 acres of land on the west side of the installation for hay production.
1221 Agricultural outleasing management and goals for CATS are included in Section 7.11.1.

1222 **5.1.2.2 CATS-M**

1223 At CATS-M the previous area known for tallgrass prairie has been converted due to haying and
1224 mowing as well as the introduction of alfalfa (*Medicago sativa*). While smooth brome and
1225 alfalfa dominate most of the area at the installation, other weedy forbs can be found growing
1226 along field edges and also near roadsides. Some of the noxious weeds that can be found in the
1227 area include Canada thistle, diffuse and spotted knapweed, leafy spurge, musk thistle, common
1228 reed, plumeless thistle, and purple loosestrife. Most other areas at CATS-M are dominated by
1229 American elm (*Ulmus americana*) and/or Siberian elm (*Ulmus pumila*), with some green ash, red
1230 mulberry, honeylocust, and eastern cottonwood. Eastern cottonwoods dominate wooded wetland
1231 areas near the center of the installation. Wetland areas and areas with lower topography where
1232 ponding occurs are dominated by curly dock, perennial ryegrass (*Lolium perenne*), swamp
1233 smartweed (*Polygonum hydropiperoides*), eastern cottonwood, and American elm.

1234 CATS-M currently leases 965 acres for hay production. Prairie restoration activities converting
1235 vegetation to native cover occurring at CATS-M are implemented as a part of the agricultural
1236 outleasing program in the form of conversion from alfalfa stands to native prairie grasses and
1237 forbs. Conversion of old alfalfa stands to native prairie grasses serves to provide habitat and
1238 forage for native species and a better adapted, higher functioning ecosystem that requires
1239 minimal maintenance. Information on the agricultural outleasing program at CATS-M, including
1240 management and goals can be found in Section 7.11.2.

1241 Vegetative communities at CATS-M are shown in Figure 5-2.

1242 **5.1.2.3 GTS**

1243 The area that GTS is located on used to be known for its mixed-grass prairies. Today, most of
1244 that native mixed-grass area has been replaced by cropland and rangeland except for small areas
1245 that are located on steep topography. The introduction of smooth brome as well as years of
1246 haying and grazing have resulted in an area no longer considered mixed-grassland prairie. Most
1247 hayland is dominated with smooth brome as well as large areas of switchgrass and big bluestem.
1248 Most areas along roadsides and field edges are dominated by weedy species of forbs.

1249 Windrows were planted at GTS from the 1940s to the 1960s. The dominant species making up
1250 these windrows include eastern red cedar, lilac (*Syringa* spp.), honey locust, black locust
1251 (*Robinia pseudoacacia*), green ash, and ponderosa pine (*Pinus ponderosa*). Some of the noxious
1252 weeds that can be found in the area include Canada thistle, diffuse and spotted knapweed, leafy
1253 spurge, musk thistle, plumeless thistle, and purple loosestrife.

1254 Wetland areas or areas with depressed topography where pooling occurs are known to have
1255 cattails (*Typha* spp.), rushes (*Eleocharis* spp. and *Juncus* spp.), bulrushes (*Schoenoplectus* spp.),
1256 and sedges. Vegetative communities at GTS are shown in Figure 5-3.

1257 GTS currently leases 2,640 acres for the production of hay. Agricultural outleasing management
1258 and goals can be found in Section 7.11.3.

1259 **5.1.2.4 GTS-SC**

1260 The land that GTS-SC is on used to be categorized as mixed-grass prairie but due to haying,
1261 mowing, and using for rangeland this area can no longer be defined as mixed-grass prairie. The
1262 species that dominate the area are switchgrass, big bluestem, little bluestem, and Scribner's
1263 panicum (*Dicanthelium oligosanthos*). Other areas such as wetland and areas that have
1264 depressed topography where pooling occurs are dominated by smartweed (*Polygonum* spp. and
1265 *Persicaria* spp.), cattails, rushes, bulrushes, sedges, and prairie cordgrass.

1266 The noxious weed leafy spurge is also abundant throughout the installation. Vegetative
1267 communities at GTS-SC are shown in Figure 5-4.

1268 GTS-SC traditionally leases 347 acres of land for haying, comprising the majority of the
1269 installation. However, due to high amounts of leafy spurge at the installation in 2019, the hay
1270 lease was ended with no plans for renewal.

1271

1272 Figure 5-1. CATS Vegetative Communities

1273 Figure 5-2. CATS-M Vegetative Communities

1274 Figure 5-3. GTS Vegetative Communities

1275 Figure 5-4. GTS-SC Vegetative Communities

1276 **5.2 FISH AND WILDLIFE**1277 **5.2.1 Birds**

1278 Migratory birds are protected through International Treaties and the Migratory Bird Treaty Act.
1279 Federal regulations and EO 13186 provide the framework for regulation of migratory bird take
1280 and possession. Federal permits are required to take, possess, transport, and dispose of migratory
1281 birds, bird parts, feathers, nests, or eggs.

1282 **5.2.1.1 CATS**

1283 Migratory birds with the potential to inhabit CATS are listed in Appendix E. Several bird
1284 surveys were conducted at CATS over the last 20 years. Most recently, a migratory bird survey
1285 was conducted at CATS in the summer of 2021 (21 through 22 June) and recorded 44 bird
1286 species encompassing 405 individuals at 28 of the 42 previously designated survey points. The
1287 American robin (*Turdus migratorius*), detected at 22 of the 28 survey points, was the most
1288 widespread species. Avian use surveys were also conducted fall 2020 as well as spring and
1289 summer 2021. In these surveys a total of 110 species were detected (Olsson 2021a).

1290 The NGPC has also conducted the “International Shorebird Survey-Lower Platte River” from
1291 April to October in 2000. In 2005, a bird inventory was performed at 30 survey locations within
1292 CATS, as part of a natural resources planning level survey. A total of 114 bird species were
1293 identified during the survey. Additionally, bald eagle (*Haliaeetus leucocephalus*), interior least
1294 tern (*Sternula antillarum athalassos*), and piping plover (*Charadrius melodus*) surveys are
1295 conducted annually to document nesting and any other presence activity. A comprehensive list
1296 of avian species is provided in Appendix E. See Section 5.3.1 CATS Threatened and
1297 Endangered Species and Species of Concern for more information on and a listing of protected
1298 species and species of concern.

1299 **5.2.1.2 CATS-M**

1300 Migratory birds with the potential to inhabit CATS-M are listed in Appendix A bird survey was
1301 conducted at CATS-M in the summer of 2021 (June 16 and 21)). This survey was conducted at
1302 31 of 65 previously designated survey points, each consisting of 5-minute intervals. During the
1303 surveys, 37 unique bird species were identified, encompassing 328 individuals. Dickcissel (*Spiza*
1304 *Americana*) was the most commonly detected species. Avian use surveys were also conducted in
1305 the fall of 2020 as well as the spring and summer of 2021. In these surveys a total of 54 species
1306 were detected (Olsson 2021b). An avian point count survey was conducted at CATS-M in July
1307 and August 2000. A total of 27 bird species were detected from 5 surveys within the Study Area,
1308 each consisting of 15-minute intervals. A comprehensive list of avian species is provided in
1309 Appendix E. See Section 5.3.2 CATS-M Threatened and Endangered Species and Species of
1310 Concern for more information on and a listing of protected species and species of concern.

1311 **5.2.1.3 GTS**

1312 Migratory birds with the potential to inhabit GTS are listed in Appendix E. A bird survey was
1313 conducted at GTS in the summer of 2021 (29 through 30 June). The survey was conducted at 45
1314 of 90 previously designated survey points. During the survey, 43 bird species were identified,

1315 encompassing 522 individuals. The dickcissel (*Spiza americana*) was the most commonly
1316 detected species. An avian point count survey was conducted at GTS in the summer of 2000 (29
1317 June and 29 August). A total of 27 bird species were detected from the 15-minute interval
1318 survey points within the Study Area. A comprehensive list of avian species is provided in
1319 Appendix F. See Section 5.3.3 GTS Threatened and Endangered Species and Species of
1320 Concern for more information on and a listing of protected species and species of concern. GTS-
1321 SC

1322 Migratory birds with the potential to inhabit GTS-SC
1323 are listed in Appendix A bird survey was conducted
1324 at GTS-SC on 15 June 2021. A total of 18 bird
1325 species were detected from 11 of previously
1326 designated 25 survey points within the Study Area,
1327 encompassing 125 individuals. Western meadowlark
1328 (*Sturnella neglecta*) was the most commonly detected
1329 species. Avian use surveys were also conducted
1330 during fall 2020 as well as spring and summer of
1331 2021. A total of 44 species were detected during
1332 these surveys (Olsson 2021c). Additionally, bald
1333 eagle and burrowing owl surveys are conducted
1334 annually to document nesting and any other presence activity. A comprehensive list of avian
1335 species is provided in Appendix E. See Section 5.3.4 GTS-SC Threatened and Endangered
1336 Species and Species of Concern for more information on and a listing of protected species and
1337 species of concern.



Burrowing Owl at GTS-SC
Photo credit: Julie Godberson, NEARNG

1338 **5.2.2 Mammals**

1339 **5.2.2.1 CATS**

1340 In fall of 2020, and spring and summer of 2021, a total of 18 species were identified through
1341 visual encounters, otter surveys, acoustic bat monitoring, and bat emergence surveys as part of a
1342 fauna survey (Olsson 2021a). Nine different bat species were detected through acoustic
1343 monitoring during this survey. In 2005, a mammal inventory was performed at 30 survey
1344 locations within CATS, as part of a Natural Resources Planning Level Survey. Of 16 species of
1345 mammals identified at CATS, four were captured in live traps, one was found beneath an
1346 artificial cover board, and the remaining were seen during visual encounter surveys. The
1347 inventory was performed at 23 locations.

1348 Monitoring efforts (in-house) through the use of trail cameras have captured mammal presence
1349 among other wildlife groups at CATS.

1350 The targeted surveys along with observations made during site visits over many years of natural
1351 resource monitoring have yielded several records of mammal occurrences at CATS. A
1352 comprehensive list of mammals is provided in Appendix F. See Section 5.3.1 CATS Threatened
1353 and Endangered Species and Species of Concern for more information on and a listing of
1354 protected species and species of concern.

1355 5.2.2.2 CATS-M

1356 In the fall of 2020, and spring and summer of 2021, a mammal inventory was performed as part
1357 of a fauna survey (Olsson 2021b). During this inventory, 17 mammals were observed on the
1358 CATS-M installation. Acoustic bat monitoring surveys were conducted during 2020 and 2021 at
1359 CATS-M, seven bat species were detected during those surveys. A small mammal survey was
1360 conducted in the fall of 2000 (25 and 16 October). This survey was accomplished with the use
1361 of three rows of 25 Sherman live traps spaced approximately 8 ft apart. The traps were baited
1362 with rolled oats and peanut butter in the evening and checked the following morning. In 2005, a
1363 mammal inventory was performed within CATS-M, as part of a Natural Resources Planning
1364 Level Survey. The inventory was performed at 51 locations and resulted in 100 trap nights.

1365 Monitoring efforts (in-house) through the use of trail cameras have captured mammal presence
1366 among other wildlife groups at CATS-M.

1367 The targeted surveys along with observations made during site visits over many years of natural
1368 resource monitoring have yielded several records of mammal occurrences at CATS-M. A
1369 comprehensive list of mammals is provided in Appendix F. See Section 5.3.2 CATS-M
1370 Threatened and Endangered Species and Species of Concern for more information on and a
1371 listing of protected species and species of concern.

1372 5.2.2.3 GTS

1373 Acoustic bat monitoring surveys were conducted during 2016 and 2017 at GTS, six bat species
1374 were detected during the 2016 efforts. In 2005, a mammal inventory was performed within GTS,
1375 as part of a Natural Resources Planning Level Survey. Fifty small mammal traps were set on
1376 two evenings for a total of 100 trap nights. Locations of traps can be broken down as follows: 50
1377 traps were set along two different wind breaks; 25 traps were set along the banks of Big Sandy
1378 Creek at the northwest corner of the facility; 25 traps were set around the pond and impoundment
1379 area on the east end of the property.

1380 Due to limited funding, mammal inventory surveys were not completed in Fall 2020 or Spring
1381 2021. The lack of funding allocated to this this installation is due to it having fewer natural
1382 resources on site than the CATS and CATS-M installations. Monitoring efforts (in-house)
1383 through the use of trail cameras have captured mammal presence among other wildlife groups at
1384 GTS.

1385 The targeted surveys along with on-site observations by natural resource personnel have yielded
1386 several records of mammal occurrences at GTS. A comprehensive list of mammals is provided
1387 in Appendix F. See Section 5.3.3 GTS Threatened and Endangered Species and Species of
1388 Concern for more information on and a listing of protected species and species of concern.

1389 5.2.2.4 GTS-SC

1390 In the fall of 2020, and spring and summer of 2021, a mammal inventory was performed as part
1391 of a fauna survey (Olsson 2021c). During this inventory, 7 mammal species were identified on
1392 the GTS-SC installation.

1393 Acoustic bat monitoring surveys were conducted during 2016 and 2017 at GTS-SC, six bat
1394 species were detected during the 2016 efforts.

1395 GTS-SC is a relatively young in ownership by the NEARNG. All other mammal surveys have
1396 been conducted through use of natural resource personnel and on-site observation at GTS-SC. A
1397 comprehensive list of mammals is provided in Appendix F.

1398 See Section 5.3.4 GTS-SC Threatened and Endangered Species and Species of Concern for more
1399 information on and a listing of protected species and species of concern.

1400 **5.2.3 Reptiles and Amphibians**

1401 **5.2.3.1 CATS**

1402 In the fall 2020, and spring and summer of 2021, an amphibian inventory was performed at
1403 CATS. During this inventory, eight species of amphibians were identified on the CATS
1404 installation. Of these eight species, five were frog species, and three were toad species. A reptile
1405 inventory was also performed as part of the same 2020-2021 survey. During the reptile
1406 inventory, seven different species of reptiles were observed at CATS, which consisted of two
1407 snake species, four turtle species, and the Northern prairie skink (*Plestiodon septentrionalis*
1408 *septentrionalis*).

1409 In 2005, an amphibian inventory was performed at seven survey locations within CATS, as part
1410 of a Natural Resources Planning Level Survey. Seven amphibian species were documented. Four
1411 of the five expected species of aquatic turtles were encountered. A reptile inventory was also
1412 performed in 2005 as part of the Natural Resources Planning Level Survey. Eleven species of
1413 reptiles were encountered at 18 different survey locations on the CATS installation. Survey
1414 results are included in Appendix F.

1415 **5.2.3.2 CATS-M**

1416 In the fall of 2020, and spring and summer of 2021, an amphibian inventory was performed at
1417 CATS-M. During this inventory, nine species of amphibians were identified on the installation.
1418 Of these nine species, six were frog species and three were toad species. A reptile inventory was
1419 also performed as part of the same 2020-2021 Natural Resources Planning Level Survey, during
1420 which five different species of reptiles were observed at CATS-M, which consisted of two snake
1421 species and two known turtle species.

1422 In 2005, as part of a Natural Resources Planning Level Survey, an amphibian inventory and
1423 reptile inventory were performed at CATS-M. During the amphibian inventory, three species
1424 were identified from 11 survey locations. The reptile survey, taken at 21 survey locations,
1425 yielded seven species of reptiles identified on the installation. The results from these surveys are
1426 included in Appendix F.

1427 **5.2.3.3 GTS**

1428 In 2005, both amphibian and reptile inventories were performed at GTS as part of a Natural
1429 Resources Planning Level Survey. The amphibian inventory, taken at five survey locations

1430 within the installation, identified four amphibian species. The reptile inventory saw six species
1431 identified from a total of 45 survey locations at GTS. The results from these inventories are
1432 included in Appendix F.

1433 **5.2.3.4 Due to limited funding, reptile and amphibian inventory surveys were not**
1434 **completed in Fall 2020 or Spring 2021. The lack of funding allocated to this this**
1435 **installation is due to it having fewer natural resources on site than the CATS and**
1436 **CATS-M installations.GTS-SC**

1437 In the fall of 2020, and spring and summer of 2021, an amphibian inventory was performed at
1438 GTS-SC. During this inventory, five species of amphibians were identified on the GTS-SC
1439 installation. Of these five species, four were frog species along with the woodhouse toad
1440 (*Anaxyrus woodhousii*). A reptile inventory was also performed as part of the same 2020-2021
1441 survey. During the reptile inventory, one species was identified on GTS-SC, the painted turtle
1442 (*Chrysemys picta*).

1443 **5.2.4 Fisheries**

1444 **5.2.4.1 CATS**

1445 CATS is located directly along the Platte River, which is home to many important fish species.
1446 The health and abundance of certain fish species can be a good bio-indicator of the aquatic
1447 environment and water quality itself. In 2005, a fisheries inventory was performed at three
1448 survey locations within CATS, as part of a Natural Resources Planning Level Survey. Three
1449 different collection techniques were used at the survey locations: trammel nets, minnow seine,
1450 and electro-fishing. Survey results are listed in Appendix F.

1451 To restore aquatic and riparian habitat as part of the on-going environmental stewardship mission
1452 of the NEARNG, a chute was constructed through emergent riparian woodland on the east bank
1453 of the Platte River at CATS in 2010. The constructed chute, known as the east bank west chute
1454 (EBWC) connects remnant chutes and water bodies, offering opportunity for diverse habitat
1455 improvement while also supporting the NEARNG training mission. Biological monitoring has
1456 been conducted at the east chute from 2012 to 2018. In addition to monitoring the EBWC,
1457 similar monitoring was conducted at a parallel backwater, known as the East Chute, and the
1458 Platte River from 2014 to 2018. Summaries of monitoring results for fish and macroinvertebrate
1459 surveys are provided in Appendix F.

1460 **5.2.4.2 CATS-M**

1461 Given the limited availability of surface water at CATS-M, no fisheries monitoring has been
1462 conducted at CATS-M.

1463 **5.2.4.3 GTS**

1464 Given the limited availability of surface water at GTS, no fisheries monitoring has been
1465 conducted at GTS.

1466 **5.2.4.4 GTS-SC**

1467 Given the limited availability of surface water at GTS-SC, no fisheries monitoring has been
1468 conducted at GTS-SC.

1469 **5.3 THREATENED AND ENDANGERED SPECIES AND SPECIES OF CONCERN**

1470 Information from the USFWS and NGPC was collected regarding the presence of threatened and
1471 endangered species at each installation pursuant to the requirements of Section 7 of the
1472 Endangered Species Act (ESA) (16 USC 1536) and the Nebraska Nongame and Endangered
1473 Species Conservation Act (Nebraska Revised Statutes 37-806). Under the ESA, an “endangered
1474 species” is defined as any species that is in danger of extinction throughout all or a significant
1475 portion of its range. A “threatened species” is defined as any species that is likely to become an
1476 endangered species within the foreseeable future throughout all or a significant portion of its
1477 range.

1478 Included below is a listing of the federal and state protected species for each installation.

1479 **5.3.1 CATS**

1480 The species listed in the table below have the potential to occur in near CATS. Candidate
1481 species that potentially occur in Nebraska that are currently under review for listing and species
1482 of conservation concern are also included. Birds of Conservation Concern (BCC) are bird species
1483 that are not listed as endangered or threatened, of the highest conservation priority as designated
1484 by the USFWS. The BCC 2021 list is comprised of avian species that are migratory, non-game,
1485 or game species that have minimal harvest (USFWS 2021). Background information for listed
1486 threatened and endangered species is provided in Section 5.3.5.

1487 **Table 5-1. Federal and State Protected species at CATS**

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
Birds				
<i>Sternula antillarum athalassos</i>	Interior Least Tern		E	X
<i>Charadrius melodus</i>	Piping Plover	T	T	X
<i>Grus americana</i>	Whooping Crane	E	E	
<i>Pluvialis dominica</i>	American Golden plover	BCC		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	BCC		X
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	BCC		
<i>Dolichonyx oryzivorus</i>	Bobolink	BCC		
<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	BCC		
<i>Spiza americana</i>	Dickcissel	BCC		X
<i>Chaetura pelagica</i>	Chimney Swift	BCC		
<i>Calidris alpina arctica</i>	Dunlin	BCC		
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	BCC		

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
<i>Spizella pusilla</i>	Field Sparrow	BCC		X
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	BCC		X
<i>Zonotrichia querula</i>	Harris's Sparrow	BCC		X
<i>Ammodramus henslowii</i>	Henslow's Sparrow	BCC		
<i>Limosa haemastica</i>	Hudsonian Godwit	BCC		
<i>Oporornis formosus</i>	Kentucky Warbler	BCC		
<i>Tringa flavipes</i>	Lesser Yellowlegs	BCC		X
<i>Lanius ludovicianus</i>	Loggerhead Shrike	BCC		X
<i>Protonotaria citrea</i>	Prothonotary Warbler	BCC		
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	BCC		X
<i>Euphagus carolinus</i>	Rusty Blackbird	BCC		
<i>Calidris pusilla</i>	Semipalmated Sandpiper	BCC		X
<i>Asio flammeus</i>	Short-eared Owl	BCC		
<i>Bartramia longicauda</i>	Upland Sandpiper	BCC		
<i>Empidonax traillii</i>	Willow Flycatcher	BCC		X
<i>Hylocichla mustelina</i>	Wood Thrush	BCC		X
Fish				
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	E	X
<i>Acipenser fulvescens</i>	Lake Sturgeon		T	
<i>Macrhybopsis gelida</i>	Sturgeon Chub	UR	E	
Mammals				
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	T	T	X
Plants				
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	T	T	
Insects				
<i>Danaus plexippus</i>	Monarch Butterfly	C		X
<i>Speyeria idalia</i>	Regal fritillary	UR		
Reptiles				
<i>Emydoidea blandingii</i>	Blanding's turtle	UR		
NOTE: E = Endangered. T = Threatened. C = Candidate for listing. UR = Under Review. BCC = Birds of Conservation Concern. USFWS IPaC 2021, USFWS 2021, NGCP CERT 2021, and Audubon 2021				

1488 **5.3.2 CATS-M**

1489 The species listed in the table below have the potential to occur near CATS-M. Candidate
 1490 species that potentially occur in Nebraska that are currently under review for listing and species
 1491 of conservation concern are also included. Birds of Conservation Concern (BCC) are bird species

1492 that are not listed as endangered or threatened, of the highest conservation priority as designated
1493 by the USFWS. The BCC 2021 list is comprised of avian species that are migratory, non-game,
1494 or game species that have minimal harvest (USFWS 2021). Background information for species
1495 protected under the ESA is provided in Section 5.3.5. Federal and State Protected Species at
1496 CATS-M.

1497 **Table 5-2. Federal and State Protected Species at CATS-M**

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
Birds				
<i>Pluvialis dominica</i>	American Golden plover	BCC		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	BCC		X
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	BCC		
<i>Dolichonyx oryzivorus</i>	Bobolink	BCC		
<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	BCC		
<i>Chaetura pelagica</i>	Chimney Swift	BCC		
<i>Spiza americana</i>	Dickcissel	BCC		X
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	BCC		
<i>Calidris alpina arcticola</i>	Dunlin	BCC		
<i>Spizella pusilla</i>	Field Sparrow	BCC		X
<i>Aquila chrysaetos</i>	Golden Eagle	BCC		X
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	BCC		X
<i>Zonotrichia querula</i>	Harris's Sparrow	BCC		X
<i>Ammodramus henslowii</i>	Henslow's Sparrow	BCC		X
<i>Limosa haemastica</i>	Hudsonian Godwit	BCC		
<i>Oporornis formosus</i>	Kentucky Warbler	BCC		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	BCC		
<i>Protonotaria citrea</i>	Prothonotary Warbler	BCC		
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	BCC		X
<i>Euphagus carolinus</i>	Rusty Blackbird	BCC		
<i>Asio flammeus</i>	Short-eared Owl	BCC		
<i>Bartramia longicauda</i>	Upland Sandpiper	BCC		X
<i>Empidonax traillii</i>	Willow Flycatcher	BCC		X
<i>Hylocichla mustelina</i>	Wood Thrush	BCC		
Fish				
<i>None</i>				
Mammals				
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	T	T	X
Plants				
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	T	T	
Insects				
<i>Danaus plexippus</i>	Monarch Butterfly	C		X
<i>Speyeria idalia</i>	Regal fritillary	UR		
Reptiles				
<i>Emydoidea blandingii</i>	Blanding's turtle	UR		
NOTE: E = Endangered. T = Threatened. C = Candidate for listing.				

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
UR = Under Review. BCC = Birds of Conservation Concern. USFWS IPaC 2021, USFWS 2021, NGPC CERT 2021, and Audubon 2021				

1498 **5.3.3 GTS**

1499 The species listed in the table below have the potential to occur near GTS. Candidate species
 1500 that potentially occur in Nebraska that are currently under review for listing and species of
 1501 conservation concern are also included. Birds of Conservation Concern (BCC) are bird species
 1502 that are not listed as endangered or threatened, of the highest conservation priority as designated
 1503 by the USFWS. The BCC 2021 list is comprised of avian species that are migratory, non-game,
 1504 or game species that have minimal harvest (USFWS 2021). Background information for species
 1505 protected under the ESA is provided in Section 5.3.5. Federal and State Protected Species at
 1506 GTS.

1507 **Table 5-3. Federal and State Protected Species at GTS**

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
Birds				
<i>Grus americana</i>	Whooping Crane	E	E	
<i>Pluvialis dominica</i>	American Golden plover	BCC		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	BCC		
<i>Vireo bellii</i>	Bell's Vireo	BCC		X
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	BCC		
<i>Dolichonyx oryzivorus</i>	Bobolink	BCC		
<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	BCC		
<i>Chaetura pelagica</i>	Chimney Swift	BCC		
<i>Spiza americana</i>	Dickcissel	BCC		X
<i>Calidris alpina arctica</i>	Dunlin	BCC		
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	BCC		
<i>Spizella pusilla</i>	Field Sparrow	BCC		
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	BCC		X
<i>Zonotrichia querula</i>	Harris's Sparrow	BCC		
<i>Ammodramus henslowii</i>	Henslow's Sparrow	BCC		X
<i>Limosa haemastica</i>	Hudsonian Godwit	BCC		
<i>Oporornis formosus</i>	Kentucky Warbler	BCC		
<i>Calamospiza melanocorys</i>	Lark Bunting	BCC		
<i>Tringa flavipes</i>	Lesser Yellowlegs	BCC		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	BCC		
<i>Protonotaria citrea</i>	Prothonotary Warbler	BCC		
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	BCC		X
<i>Euphagus carolinus</i>	Rusty Blackbird	BCC		
<i>Calidris pusilla</i>	Semipalmated Sandpiper	BCC		
<i>Asio flammeus</i>	Short-eared Owl	BCC		
<i>Bartramia longicauda</i>	Upland Sandpiper	BCC		
<i>Tringa semipalmata</i>	Willet	BCC		

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
<i>Empidonax traillii</i>	Willow Flycatcher	BCC		
<i>Hylocichla mustelina</i>	Wood Thrush	BCC		
Fish				
<i>None</i>				
Mammals				
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	T	T	
Plants				
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	T	T	
Insects				
<i>Danaus plexippus</i>	Monarch Butterfly	C		X
<i>Speyeria idalia</i>	Regal fritillary	UR		
Reptiles				
<i>Emydoidea blandingii</i>	Blanding's turtle	UR		
NOTE: E = Endangered. T = Threatened. C = Candidate for listing. UR = Under Review. BCC = Birds of Conservation Concern. USFWS IPaC 2021, USFWS 2021, NGPC CERT 2021, & Audubon 2021				

1508 **5.3.4 GTS-SC**

1509 The species listed in the table below have the potential to occur near GTS-SC. Candidate species
 1510 that potentially occur in Nebraska that are currently under review for listing and species of
 1511 conservation concern are also included. Birds of Conservation Concern (BCC) are bird species
 1512 that are not listed as endangered or threatened, of the highest conservation priority as designated
 1513 by the USFWS. The BCC 2021 list is comprised of avian species that are migratory, non-game,
 1514 or game species that have minimal harvest (USFWS 2021). Background information for species
 1515 protected under the ESA is provided in Section 5.3.5. Federal and State Protected Species at
 1516 GTS-SC.

1517 **Table 5-4. Federal and State Protected Species at GTS-SC**

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
Birds				
<i>Sternula antillarum athalassos</i>	Interior Least Tern		E	
<i>Charadrius melodus</i>	Piping Plover	T	T	
<i>Grus americana</i>	Whooping Crane	E	E	
<i>Pluvialis dominica</i>	American Golden plover	BCC		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	BCC		X
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	BCC		
<i>Dolichonyx oryzivorus</i>	Bobolink	BCC		
<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	BCC		
<i>Chaetura pelagica</i>	Chimney Swift	BCC		X

Scientific Name	Common Name	Federal Status	State Status	Observed on or Near Installation
<i>Spiza americana</i>	Dickcissel	BCC		X
<i>Calidris alpina arcticola</i>	Dunlin	BCC		
<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	BCC		
<i>Spizella pusilla</i>	Field Sparrow	BCC		
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	BCC		X
<i>Zonotrichia querula</i>	Harris's Sparrow	BCC		
<i>Ammodramus henslowii</i>	Henslow's Sparrow	BCC		X
<i>Limosa haemastica</i>	Hudsonian Godwit	BCC		
<i>Oporornis formosus</i>	Kentucky Warbler	BCC		
<i>Tringa flavipes</i>	Lesser Yellowlegs	BCC		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	BCC		
<i>Protonotaria citrea</i>	Prothonotary Warbler	BCC		
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	BCC		
<i>Euphagus carolinus</i>	Rusty Blackbird	BCC		
<i>Asio flammeus</i>	Short-eared Owl	BCC		
<i>Bartramia longicauda</i>	Upland Sandpiper	BCC		X
<i>Hylocichla mustelina</i>	Wood Thrush	BCC		
Fish				
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	T	
<i>Macrhybopsis gelida</i>	Sturgeon Chub	UR	E	
Mammals				
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	T	T	
Plants				
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	T	T	
<i>Cypripedium candidum</i>	Small White Lady's Slipper		T	
Insects				
<i>Danaus plexippus</i>	Monarch Butterfly	C		X
<i>Speyeria idalia</i>	Regal fritillary	UR		
Reptiles				
<i>Emydoidea blandingii</i>	Blanding's turtle	UR		
NOTE: E = Endangered. T = Threatened. C = Candidate for listing. UR = Under Review. BCC = Conservation Concern. USFWS IPaC 2021, USFWS 2021, NGPC CERT 2021, and Audubon 2021				

1518 **5.3.5 Threatened, Endangered, and Candidate Species Information**

1519 This section includes background information for individual species that are designated as
 1520 threatened or endangered. Refer to the tables provided in the previous sections for the
 1521 installation (may be one or multiple) of interest for each species.

1522 **5.3.5.1 Interior Least Tern**

1523 The interior least tern is designated as endangered
1524 by state regulation and was de-listed from federal
1525 endangered status in January 2021. The least tern
1526 breeds locally along major tributaries of the
1527 Mississippi River drainage basin from eastern
1528 Montana south to Texas and east to western
1529 Illinois, Missouri, Arkansas, and Louisiana. In
1530 Nebraska, the interior least tern currently breeds
1531 along the Platte River from its mouth, west to
1532 North Platte, at one or two isolated sites along the
1533 South Platte, along the lower reaches of the
1534 Niobrara River, along reaches of the Loup and
1535 Elkhorn Rivers, and on the unchannelized section
1536 of the Missouri River below the Fort Randall and Gavins Point dams (Lackey 1997a).



Interior Least Tern at CATS
Photo credit: Amy Dirks, NEARNG

1537 Along the Platte River system, reservoirs and irrigation diversions have severely reduced river
1538 flows and curtailed the scouring effects of spring floods. Those reductions accelerated the
1539 encroachment of vegetation onto the river sandbars further altering the habitat. Furthermore, the
1540 extraction of sand and gravel for commercial use was another change that occurred as rivers
1541 were developed (Lackey 1997a). Sand and gravel mines created open sandpit lakes and bare
1542 sand piles on the river floodplain. As riverine nesting habitat became increasingly limited, least
1543 terns began to nest on the bare spoil piles at sandpits. Least tern reproductive success can also be
1544 limited by human-related disturbances, such as foot traffic, unleashed pets, recreational
1545 activities, and off-road vehicles. Agricultural chemical runoff into rivers and tributaries can also
1546 affect the quality of least tern nesting and foraging habitat (Lackey 1997a). More importantly,
1547 the effects of contaminants, combined with the physical degradation of habitat and the increase
1548 in human disturbance, could further accelerate population declines.

1549 The least terns are highly dependent on the presence of dry, exposed mid-river sandbars that are
1550 free of vegetation and have no connection to land, as well as on favorable river flows that
1551 support a forage fish population (Lackey 1997a; Stansberry pers. comm. 2000). Characteristic
1552 riverine nesting sites are dry, flat, sparsely vegetated sand- and gravel bars within a wide,
1553 unobstructed, water- filled river channel. Nests are initiated only after spring and early summer
1554 flows recede and dry areas on sandbars are exposed, usually on higher elevations away from the
1555 water's edge. Artificially created nesting sites, such as sand and gravel mining operations, are
1556 also used as possible nesting habitat by the species (Lackey 1997a; Anschutz pers. comm. 2000).

1557 Interior least terns usually arrive on their breeding grounds in early to mid-May and begin to
1558 establish feeding and nesting territories. The nesting season for the least tern is from 15 April to
1559 15 August (Anschutz pers. comm. 2000). In the fall, the migration usually takes place from mid-
1560 or late July to early September (Lackey 1997a).

1561 **5.3.5.2 Piping Plover**

1562 The piping plover is a migratory shorebird that
1563 breeds along prairie rivers, alkali lakes, ponds of
1564 the northern Great Plains, on sandy beaches
1565 along the Great Lakes, and on the vast beaches
1566 of the Atlantic Coast. Although one of the
1567 largest piping plover breeding populations in
1568 North America is supported by Nebraska Rivers,
1569 the piping plover is designated as threatened by
1570 both the state and federal regulation. The piping
1571 plover's historic breeding range in Nebraska
1572 included the Missouri River, Platte River, parts
1573 of the Loup River, and the Niobrara River. The
1574 piping plover can still be found nesting on
1575 naturally occurring sandbars along the lower Niobrara, the Lower Platte (Columbus to
1576 Plattsmouth), the Loup, and at a few sites along the Middle Loup (Lackey 1997b).



Piping Plover
Photo credit: NEBRASKAland
Magazine/NGPC

1577 Many factors have led to the decline in piping plover population. Dams and diversions regulate
1578 flows that historically would scour vegetation from sandbars, while sediment trapped behind
1579 dams can no longer contribute to downstream sandbar formation. Thus, sediment-deficient water
1580 passing through dams lowers the riverbed while elevating the sandbars (Lackey 1997b).
1581 Furthermore, vegetation on heightened sandbars is no longer scoured, and the only suitable
1582 nesting sandbars are those exposed at low flows. These low-elevation sandbars, however, are
1583 routinely subjected to flooding that destroys the plover nests. Recreational and commercial
1584 developments have also encroached on their habitat, forcing the piping plovers to find alternative
1585 habitat at sand and gravel mines in order to find viable nesting sites. These areas, however, often
1586 lack the protection of a flowing water barrier and are easily accessed by human and terrestrial
1587 predators (Lackey 1997b).

1588 In Nebraska, piping plovers nest on submerged and/or exposed sandbars in the middle of wide
1589 channels of large rivers (Lackey 1997b; Stansberry pers. Comm. 2000). Characteristic habitats
1590 include unvegetated or sparsely vegetated sandbars on the Platte and spoil piles at sand and
1591 gravel mining operations (Lackey 1997b; Anschutz pers. comm. 2000). This makes CATS a
1592 prime resource for piping plover protection and conservation. Nests are located on elevated areas
1593 with non-vegetated sand, gravel, and cobble substrates; and are sometimes placed near objects
1594 such as small pieces of driftwood, stones, or bones to aid in camouflaging the nest.
1595 Unobstructed views are also essential so adult piping plovers can readily detect potential threats
1596 (Lackey 1997b).

1597 In spring, piping plovers begin their migration north to breeding areas and arrive in the Great
1598 Plains in late April or early May. The nesting season for piping plovers is from 15 April through
1599 15 August (Anschutz pers. comm. 2000). Most piping plovers in Nebraska nest in or near
1600 colonies of the endangered least tern. This association is thought to be beneficial to plovers,
1601 because the tern aggressively defends the entire colony areas by mobbing and chasing intruders
1602 away. Fall migration to wintering areas may begin as early as late June, and by mid-August
1603 most piping plovers have left Nebraska (Lackey 1997b).

1604 **5.3.5.3 Whooping Crane**

1605 The whooping crane, which is listed as
 1606 endangered by both state and federal regulations,
 1607 is the tallest bird in North America and is
 1608 probably one of the best-known endangered
 1609 species on the continent. The body feathers are
 1610 mostly white with black wing tips, which you can
 1611 only see in flight. The top of the head is covered
 1612 with an identifying red crown. A distinguishing
 1613 feature for the whooping crane is their long black
 1614 legs and yellow bill. Immature whooping cranes
 1615 are rusty or cinnamon colored during the first fall
 1616 migration. At around four months of age, white feathers appear on the lower neck and back.
 1617 Immature birds achieve full adult white plumage late in their second summer.



Whooping Crane
 Photo credit: NEBRASKAland
 Magazine/NGPC

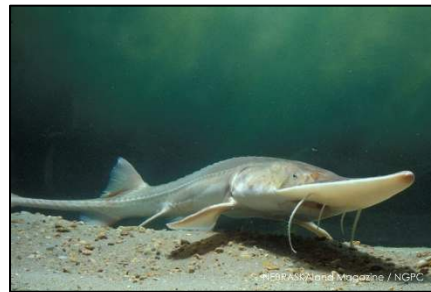
1618 Male whooping cranes approach 5 feet tall when standing upright and can weigh 16 pounds,
 1619 females also reach 5 feet in height and average 14 pounds. The wingspan of the whooping crane
 1620 is 87 inches. The whooping crane is the only large white bird, with a wingspan of over 7 feet
 1621 that flies with neck and legs outstretched.

1622 The whooping crane is the rarest of the world's 15 species of cranes. It is estimated that less
 1623 than 600 individuals exist worldwide. More than half of these birds migrate through Nebraska
 1624 during the spring and the fall (NGPC 2021d). Spring migration typically occurs March 6
 1625 through April 29 and the fall migration typically from October 9 through November 15.

1626 GTS is located approximately 30 miles south south-east from the Nebraska Crane Trust located
 1627 at 9325 South Alda Road, Wood River, NE 68883.

1628 **5.3.5.4 Pallid Sturgeon**

1629 The pallid sturgeon was designated as an
 1630 endangered species on 6 September 1980 and is
 1631 protected by both state and federal regulations.
 1632 The species was originally found in the Missouri
 1633 and lower Mississippi Rivers and their larger
 1634 tributaries. However, presently it is found only
 1635 in portions of its former range. In Nebraska, the
 1636 pallid inhabits the main stem of the Missouri
 1637 River, which includes the unchannelized, reaches
 1638 above and below Gavins Point Dam and the
 1639 channelized reach downstream from Sioux City.
 1640 It also lives in the lower reaches of major
 1641 tributaries such as the Niobrara, Platte, Elkhorn,
 1642 and Little Nemaha Rivers (Zuerlein 1997).



Pallid Sturgeon
 Photo credit: NEBRASKAland
 Magazine/NGPC

1643 The pallid sturgeon has declined significantly since the 1900s. The species was fairly abundant
1644 before commercial over-harvesting and habitat modifications (Zuerlein 1997). The building of
1645 dams affected their survival by altering water temperatures: the water released from a dam is
1646 much colder than normal river water. Flow patterns that naturally occurred during spawning
1647 periods were replaced by water releases from dams operating for power generation and
1648 navigation flows. Furthermore, fish bypass facilities were not constructed on any of the dams,
1649 resulting in the interruption of upstream and downstream spawning movements. Finally, tree
1650 snags and drift piles that had provided instream habitat for aquatic insects and fish were removed
1651 (Zuerlein 1997).

1652 The species is associated with habitat that includes areas near the bottom of large, turbid rivers.
1653 On the Platte River, pallid sturgeon are directly associated with mid-river submerged and/or
1654 exposed sandbars. They are known to inhabit the downstream ends of exposed and submerged
1655 sandbars, presumably to feed on invertebrates that have dropped out of suspension and
1656 accumulated in low velocity pools (Stansberry pers. comm. 2000). Many sturgeon species
1657 depend on free-flowing rivers and seasonal floods to provide suitable spawning conditions
1658 (Beamesderfer and Farr 1997). At the mouth of large Missouri River tributaries, habitat can be
1659 found that is favorable to the species, such as water carrying relatively large amounts of silt,
1660 organic matter, and drifting aquatic insects. In addition, water with temperatures, which are
1661 similar to conditions before the dams and reservoirs were built, can be favorable habitat
1662 (Zuerlein 1997).

1663 **5.3.5.5 Sturgeon Chub**

1664 The sturgeon chub is a member of the minnow
1665 family (*cyprinidae*) and is identified as
1666 endangered by Nebraska regulation. The
1667 sturgeon chub's range in Nebraska consists of the
1668 Missouri River and its tributaries including the
1669 lower Platte River and they are considered
1670 extremely rare in both rivers (Steffensen et. al.
1671 2014a). Preferred sturgeon chub habitat is turbid,
1672 fast flowing water with rock or sand substrate. Some evidence indicates this species may move
1673 to shallower water to spawn during June to mid-July (USFWS 2001). The greatest factors
1674 affecting sturgeon chub are the altered flow regimes, turbidity levels, and water temperature
1675 (NRCS 2009a).



Sturgeon Chub
Photo credit: David Ostendorf

1676
1677 Peters and Parham (2007) collected five sturgeon chub from the lower Platte River during a four-
1678 year sampling effort that totaled 1,157 unique sampling efforts of mixed gear types that included:
1679 trammel nets, gill nets, trawls, seines and trotlines. Overall, 48,761 specimens were collected
1680 from the lower Platte River by Peters and Parham (2007). The sturgeon chub was typically
1681 collected over sand with up to 25% gravel substrates, collection depths ranged from 3.4-4.6 feet
1682 with an average bottom velocity of 1.0 feet/second. The sturgeon chub and pallid sturgeon are
1683 both bottom dwelling species sharing similar habitats (Peters and Parham 2007).

1684 5.3.5.6 Lake Sturgeon

1685 Lake sturgeon are large, long-lived freshwater fish that are identified as threatened by Nebraska
1686 regulation. Lake sturgeon inhabit large lakes and deep, fast flowing waters with sand and gravel
1687 substrate. Adults will migrate great distances to find suitable habitat for spawning. Spawning
1688 usually takes place in late spring over gravel or rocky substrate. It takes many years for sturgeon
1689 to reach full maturity and they reproduce infrequently (Steffensen et al 2014b).

1690

1691 Presently, most of captured lake sturgeon in the Missouri River are hatchery-reared fish. As
1692 stocking continues, the population of lake sturgeon in the Missouri River and its tributaries is
1693 projected to increase (Steffensen et al 2014b). With the installation of dams and the
1694 channelization of rivers, habitat fragmentation has occurred. Dams have stopped spawning
1695 migrations resulting in lower recruitment and reduced abundance of the species.

1696 5.3.5.7 Northern Long-Eared Bat

1697 The Northern Long-Eared Bat (NLEB) is federally
1698 protected as threatened with a 4(d) Rule and state
1699 protected as threatened. In Nebraska, the nearest
1700 confirmed hibernacula for the NLEB occur in limestone
1701 and sandstone mines along the Platte River near
1702 Louisville, in Cass County. They use these mines in
1703 Louisville on a year-round basis (Czaplewski et al.
1704 1979). There are dense riparian corridors along the
1705 Platte River connecting these hibernacula to CATS.
1706 NLEBs also occur in mines located southwest of
1707 Fontenelle Forest, in Sarpy County (USFWS 2014), and
1708 breeding records have been confirmed in that county
1709 (Benedict 2004). Fontenelle Forest is located north of
1710 the city of Bellevue, Nebraska adjacent to the Missouri
1711 River, within a dense forested habitat.



Northern Long-Eared Bat
Photo credit: New York Department of
Environmental Conservation; Al Hicks

1712 The NLEB is exclusively insectivorous and uses passive listening and echolocation (or gleaning)
1713 to locate and capture insects resting on leaves, tree trunks, or against structures (Taylor 1963).
1714 This species' ability to glean insects from vegetation, in addition to aerial hawking of prey,
1715 makes them well adapted for forest interior foraging (Ratcliffe and Dawson 2003), and has likely
1716 resulted in their apparent dependency on intact forests. Henderson and Broders (2008)
1717 determined that NLEBs do not fly more than approximately 256 feet from an edge of intact
1718 forest, thereby avoiding open, un-forested areas.

1719 5.3.5.8 Western Prairie Fringed Orchid

1720 The western prairie fringed orchid is identified as
1721 threatened by both state and federal regulations. The
1722 orchid's historic distribution once extended throughout the
1723 wetlands west of the Mississippi River and in the tallgrass
1724 prairie of the central United States and southern Canada
1725 (Hof et al. 1999). Because of the conversion of prairie to
1726 cropland and other human disturbances, however, much of
1727 its original habitat has been lost. Plowing, mowing before
1728 seed set, grazing, burning, water table manipulation and
1729 other management activities have all negatively impacted
1730 the orchid. A limited number of observed populations and
1731 their relative isolation prompted the addition, in 1989, of
1732 the western prairie fringed orchid to the Federal and
1733 Nebraska lists of threatened species (USFWS, 1989; Fritz
1734 1993). Known populations currently occur in the Plains
1735 States and Manitoba in Canada (USFWS 1996b).



Western Prairie Fringed Orchid
Photo credit: Daniel Mosquin,
Nebraska Rare Species/NGPC

1736 In Nebraska, potential orchid habitat exists primarily in the eastern two-thirds of the state, where
1737 the orchid occurs in mesic upland prairies in glacial drift and calcium- rich loess soils state (Fritz
1738 1993). These upland prairies are typified by the tallgrass prairie habitat and a high soil moisture
1739 profile. Associated tallgrass species include big bluestem, little bluestem and Indiangrass, with
1740 tufted hairgrass (*Deschampsia caespitosa*) and switchgrass common in wetter sites (USFWS
1741 1996a). The orchid generally occurs in the wetter portions of these prairies or in associated
1742 sedge meadows. Current verified orchid populations are found in Lancaster, eastern Seward,
1743 Hall and east-central Cherry Counties; Saunders County was identified by the USFWS as having
1744 potential sites suitable for the orchid (USFWS 1996b).

1745 Orchids emerge in early May and, with favorable conditions; the peak flowering period in
1746 eastern Nebraska is from mid-June to late July (Fritz 1993). Above-ground growth, however,
1747 has been observed to be quite erratic (Bowles et al. 1992). Periods of high numbers may be
1748 followed by years in which the orchids do not emerge. Excessive drought or flooding can cause
1749 local populations to decline and even become extinct (Sieg and King 1995).

1750 5.3.5.9 Saltwort

1751 Saltwort is identified as endangered by the State of Nebraska. Saltwort is a small annual
1752 succulent that has the ability to grow in very alkaline soils in Nebraska's saline wetlands. The
1753 stems of the plant are green and fleshy during the summer months, then fade to red in the fall.
1754 While saltwort's range includes much of western United States and Canada, it is also found as
1755 far south and east as Nebraska. Saltwort's population in Nebraska is limited to the watersheds of
1756 Rock Creek and Salt Creek in Saunders and Lancaster Counties (NGPC 2021b).

1757 Saltwort requires clay soils with a salinity level of 2.5 to 4.7 percent and a water table within
1758 three feet of the ground surface. These specific requirements have limited the amount of

1759 available natural habitat for saltwort. In addition, it is estimated that more than 90 percent of
1760 saline wetlands in Nebraska have been severely degraded or destroyed (NGPC 2021b).

1761 **5.3.5.10 Small White Lady's Slipper**

1762 The small white lady's-slipper, which is identified as
1763 threatened by state regulation, is a perennial orchid with
1764 fibrous roots. The upright stems are solitary or colonial
1765 and 6-16 inches tall. There are usually 3 or 4 lance-shaped
1766 leaves clasp the stem. The larger leaves may be up to 6
1767 inches long and 2 inches wide and are strongly ribbed.
1768 The flowers, usually one, rarely two per plant, are located
1769 terminally on the stems and are subtended by a leafy bract.
1770 The flowers resemble a small porcelain slipper. The
1771 inflated lip is white, delicately streaked with rose-purple
1772 and only 3/4 to 7/8 inches long. The sepals and petals are
1773 greenish-yellow with purplish stripes and are downy near
1774 the base (NRCS 2009b).



Small White Lady's Slipper
Photo credit: Nebraska Rare
Species/NGPC

1775 The small white lady's-slipper is a plant of the northeastern United States. Historically the
1776 orchid was likely found throughout eastern Nebraska and much of central Nebraska. There are
1777 historic collection records for the orchid from 17 Nebraska counties. In the past 15 years, the
1778 orchid has been collected from only four Nebraska counties: Howard, Pierce, Platte, and
1779 Sherman. There are only 7 known extant populations. Two populations are thought to have
1780 been destroyed in recent years by road construction projects. All known Nebraska populations
1781 have less than 200 plants each (NRCS 2009b).

1782 All of Nebraska's known populations occur in native, sub-irrigated wet meadows. These sites
1783 have sandy loam soils and are dominated by typical wet meadow species including big bluestem
1784 and sedges (*Carex* spp.). Most sites where the orchid occurs are relatively undisturbed hay
1785 meadows. The orchid appears to be intolerant of cattle grazing and has not been found in grazed
1786 pastures. Two populations of orchids near Columbus occurred in road ditches adjacent to native
1787 meadows. The small white lady's-slipper rarely occurs in such early successional habitats, but
1788 when they do, they are usually adjacent to naturally occurring seed sources (NRCS 2009b).

1789 The conversion of wet meadows to cropland is a primary threat to remaining populations of the
1790 small white lady's-slipper. Another primary threat is the alteration of natural groundwater levels
1791 in meadows where the orchid occurs. Direct pumping of groundwater from irrigation wells can
1792 reduce groundwater levels in meadows. Reduced flows in streams adjacent to meadows can also
1793 reduce groundwater levels in the meadows.

1794 The small white lady's-slipper has not been found in grazed pastures and it appears that cattle
1795 grazing has likely impacted the orchid's abundance. The orchid is also susceptible to herbicides
1796 and both their direct herbicide application as well as herbicide drift from adjacent croplands has
1797 likely impacted the species. The original habitat of small white lady's-slipper has been highly
1798 fragmented, resulting in small, isolated populations of the species. These small populations are

1799 vulnerable to being eliminated by chance human-induced or natural catastrophic events (NRCS
1800 2009).

1801 **5.3.5.11 Salt Creek Tiger Beetle**

1802 The Salt Creek tiger beetle is identified as endangered both federally and by the State of
1803 Nebraska. The Salt Creek tiger beetle spends most of its life as larva. Adults are metallic
1804 brown/olive green on the top side and metallic green on the underside with soft-bodies, large
1805 dark heads, and large mandibles. The Salt Creek tiger beetle's range within Nebraska is limited
1806 to small areas within saline wetlands in Lancaster and Saunders Counties (NGPC 2021c).

1807 The Salt Creek tiger beetle requires saline mud flats and exposed mud stream banks with salt
1808 deposits. The beetle is not tolerant of dry conditions and is typically found within a few feet of a
1809 stream or wetland edge. These specific requirements and the channelization and straightening of
1810 Salt Creek have limited the amount of available natural habitat for the Salt Creek tiger beetle. In
1811 addition, it is estimated that more than 90 percent of saline wetlands in Nebraska have been
1812 severely degraded or destroyed (NGPC 2021c).

1813 **5.4 WETLANDS AND FLOODPLAINS**

1814 **5.4.1 Wetlands**

1815 Wetlands are defined as areas that are inundated or saturated by surface or groundwater at a
1816 frequency and duration sufficient to support, and under normal conditions do support, a
1817 prevalence of vegetation typically adapted for life in saturated soil conditions (USACE 1987).
1818 Wetland functions include groundwater recharge/discharge, flood/flow alteration, sediment
1819 stabilization, sediment and toxicant retention, nutrient removal and transformation, aquatic and
1820 terrestrial diversity and abundance, and uniqueness.

1821
1822 Wetland areas are determined using the routine onsite determination method described in the
1823 USACE *Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the*
1824 *Corps of Engineers Wetland Delineation Manual: Great Plains Region* (Version 2.0) (USACE
1825 2010) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual:*
1826 *Midwest Region* (Version 2.0) (USACE 2010). The wetland delineation method requires the
1827 investigation of three wetland parameters:

- 1828 • ***Hydrophytic Vegetation***—Classified by the estimated probability of occurrence in
1829 wetland versus non-wetland areas throughout its distribution.
1830
- 1831 • ***Hydric Soils***—Soils that are saturated, flooded, or ponded for sufficient periods during
1832 the growing season and that develop anaerobic conditions in their upper layers.
1833
- 1834 • ***Hydrological Characteristics***—Determined by the frequency of flooding, duration of
1835 inundation, and soil saturation.
1836

1837 For an area to be classified as a wetland, positive indicators of each of the three parameters must
1838 be present, with the exception of problem areas.

1839 The USACE has jurisdiction over all waters of the U.S. and is the regulatory authority for
1840 decisions regarding the occurrence of wetlands and other waters of the U.S. within the project
1841 area. Discharges of dredged or fill materials in waters of the U.S., including wetlands, require
1842 prior authorization from the USACE under Section 404 of the Clean Water Act (CWA) (33 USC
1843 1344) and EO 11990, *Protection of Wetlands*.

1844 If wetlands are or expected to be impacted due to installation activities, a Section 404 permit
1845 may be required. Section 404 Permit requirements are based on project impacts to jurisdictional
1846 resources. There are three types of permits; Nationwide Permit, Nationwide Permit with waiver,
1847 and Individual Permit. Nationwide Permits are streamlined permits based on small impact
1848 thresholds to jurisdictional resources. Typically, these permits take 45 to 60 days to acquire.

1849 Waivers can be requested to impact greater amounts beyond what the Nationwide Permit
1850 thresholds allow if the resources are of low quality. A Section 404 Individual Permit includes a
1851 public and agency review period and can require from four to twelve months, averaging about
1852 six months.

1853 Furthermore, as a part of a Section 404 permit, the USACE may require mitigation for the
1854 impacts to jurisdictional features. Typically, the USACE requires that an applicant purchase
1855 mitigation credits through an approved mitigation bank. If a mitigation bank is not present in the
1856 area, an in-lieu fee mitigation program may be used. The last option would be to do on-site
1857 permittee-responsible mitigation. Mitigation, and how it is accomplished, will need to be
1858 negotiated with USACE.

1859 In addition to USACE regulatory requirements for wetlands, the NDEE is responsible for
1860 administering the Section 401 Water Quality Certification Program under Section 401 of the
1861 CWA. Under Title 117 – Nebraska Surface Water Quality Standards, the NDEE has authority
1862 over all surface waters of the state. This includes waters that may be considered non-
1863 jurisdictional by the USACE under Section 404 of the CWA, such as isolated wetlands.
1864 Coordination with the NDEE is necessary for impacts to surface waters that could affect water
1865 quality and is generally completed in conjunction with the 404-permit application.

1866 **5.4.1.1 CATS**

1867 Wetlands at CATS were delineated by Olsson Associates (Olsson) in October of 2017 (Olsson
1868 2017a). Based on a review of existing resources and the field investigation, Olsson identified 35
1869 wetlands, seven open waters, and four channels, including the Platte River within the study area
1870 (Figure 4-9). Olsson identified 25 areas of Palustrine Emergent Temporarily Flooded (PEMA)
1871 wetlands, two areas of Palustrine Scrub Shrub Temporarily Flooded (PSSA) wetlands, three
1872 Palustrine Emergent Seasonally Flooded (PEMC) wetlands, and five Palustrine Forested
1873 Temporary Flooded (PFOA) wetlands. A total of 27.33 acres of wetlands were observed along
1874 with 9.41 acres of open waters and 26,091 linear feet of channels. Seven open waters and five
1875 perennial waters were found within the study area.

1876 The wetlands, open waters, and channels identified by Olsson are likely to be considered
1877 “Waters of the United States” (WOTUS). This would make these waters subject to the Clean
1878 Water Act (CWA) due to their proximity and nexus to a traditionally navigable waterway, the

1879 Platte River. These waters can only be deemed jurisdictional by the U.S. Army Corps of
1880 Engineers (USACE).

1881 **5.4.1.2 CATS-M**

1882 On-going stream and wetland restoration work along Johnson Creek requires five years of
1883 monitoring to determine if the banks develop stabilization issues, if vegetation becomes
1884 established, and if the percentage of desirable vegetative species meets permit requirements.
1885 Three cross sections are required within each channel mitigation site to serve as a comparison for
1886 monitoring efforts each year.

1887 The most recent monitoring event occurred in July 2016. A total of 32 vegetative species were
1888 identified within the restored wetland areas, across all cross sections, within each project. Out of
1889 32 species within the restored wetland areas, 23 species (72 percent) have indicator status of
1890 FAC or wetter (FAC, FACW, or OBL). However, two invasive species in wetlands were
1891 observed within the project areas. Reed canary grass was a dominant species throughout the
1892 project areas. Common reed (*Phragmites australis*) was observed at two primary locations in
1893 large stands typical of common reed growth patterns. The wetland restoration areas for each
1894 project area have successfully revegetated.

1895 Wetlands at CATS-M were delineated by EA in July of 2019 (EA 2019). During the field
1896 investigation, EA identified and mapped five different wetland types within the site. The total
1897 amount of wetland area mapped was 3.639 acres, in addition to 773 linear feet of ephemeral
1898 stream and 1,149 linear feet of intermittent stream. The wetlands identified include 13 areas of
1899 palustrine emergent wetlands; three palustrine emergent seasonally flooded wetlands (PEMA),
1900 one palustrine forested temporarily flooded wetland (PFOA), and one palustrine scrub-shrub
1901 temporarily flooded wetland area (PSSA), in addition to the riverine, intermittent, streambed,
1902 seasonally flooded stream (R4SBC) with observed Ordinary High-Water Mark (OHWM)
1903 extending 1,149 feet into the investigation area.

1904 Approximately 3.639 acres of wetland are present at CATS-M, they are primarily located in
1905 areas of depressed or terraced topography, along drainageways, and places where ponding or
1906 sub-surface saturation is occurring. The most prevalent classification of wetland found on-site
1907 was PEMA with a total of 2.975 acres.

1908 **5.4.1.3 GTS**

1909 Wetlands at GTS were delineated by Olsson in August of 2013 and October 2021 (Olsson
1910 2013b) (Olsson 2021g). The onsite survey for GTS identified 111 wetlands located within the
1911 training site (Figure 4-11). The area of wetlands within the installation boundaries is
1912 approximately 32.11 acres. Evidence indicates that one of these wetlands is likely a Water of the
1913 U.S. (i.e., under the jurisdiction of USACE) due to its position adjacent to a tributary to Big
1914 Sandy Creek, which has a significant nexus to the Little Blue River, which has a significant
1915 nexus to the Big Blue River (Navigable Water) in central Kansas. All other wetlands located on
1916 the installation do not have any apparent significant nexus to waters of the U.S. and therefore are
1917 likely to be considered non-jurisdictional by the USACE.

1918 During the site visit, Olsson identified 107 areas of PEMA/PEMC wetlands and three PFOA
 1919 wetlands. No stream channels were observed. Five previously noted streams no longer had
 1920 ordinary high-water marks (OHWM) or defined bed and bank.

1921 Olsson delineated wetlands within a 25.08-acre study area adjacent to Big Sandy Creek in the
 1922 southeastern portion of GTS in September of 2017 (Olsson 2017b). This delineation was
 1923 performed to set a baseline of the site’s current conditions. The on-site investigation identified
 1924 two wetlands totaling 11.08 acres and one open water feature of 0.01 acre. Both wetlands were
 1925 classified under the Cowardin system as Palustrine Emergent Temporarily Flooded (PEMA)
 1926 wetlands, which includes one large wetland (11.08 acres) and one smaller wetland (0.05 acres).

1927 Big Sandy Creek meanders through this study area and is present on the National Hydrography
 1928 Dataset (NHD) map and is represented as a linear emergent feature on the National Wetlands
 1929 Inventory (NWI) map. During the field investigation however, Olsson observed this area as
 1930 completely covered in emergent vegetation and noted no sign of stream characteristics, so it was
 1931 classified as a wetland.

1932 During the field investigation, Olsson also noted the presence of invasive species in the study
 1933 area. Both honey locust (*Gleditsia triacanthos*) and reed canary grass (*Phalaris arundinacea*)
 1934 were observed and have the potential to become invasive if unchecked.

1935 **5.4.1.4 GTS-SC**

1936 Wetlands at GTS-SC were delineated by Olsson in July of 2013 (Olsson 2013c). The on-site
 1937 survey for GTS-SC identified approximately 61.83 acres of PEMA wetlands (Figure 4-12). The
 1938 likely jurisdictional wetland areas (total of 6.07 acres) are located adjacent to Prairie Creek, a
 1939 tributary to the Platte River, which has a significant nexus to the Missouri River, a Navigable
 1940 Water of the U.S. Three other wetland areas (total of 0.47 acres) may possibly be jurisdictional
 1941 as portions of these wetlands extend an undetermined distance south beyond the study area, and
 1942 may have a significant nexus to other waters of the U.S.

1943 **5.4.2 Floodplains**

1944 EO 11988, *Floodplain Management*, issued 24 May 1977, requires all federal agencies to
 1945 provide leadership and take action to reduce the risk of flood loss; minimize the impacts of
 1946 floods on human safety, health, and welfare; and restore and preserve the natural and beneficial
 1947 values of floodplains when acquiring, managing, or disposing of federal lands. EO 11988 is
 1948 implemented through the CWA and 44 CFR Part 9 *Floodplain Management and Protection of*
 1949 *Wetlands*. Floodplains are defined in this EO as “the lowland and relatively flat areas adjoining
 1950 inland and coastal waters including flood prone areas of offshore islands including, at a
 1951 minimum, that area subject to a 1 percent or greater chance of flooding in any given year.”
 1952 Flooding in the 100-year floodplain is expected to occur from a flood that has a 1 percent
 1953 probability of occurring in any given year; therefore, the 100-year floodplain has an annual
 1954 probability of exceedance of 1 percent.

1955 5.4.2.1 CATS

1956 The floodplain of the Platte River passes through the center of CATS and covers approximately
1957 663 acres (268 ha) (Figure 6-1) (FEMA 2021). Within the boundaries of the installation, the
1958 channel of the Platte River is approximately 1,500 to 2,000 ft (457.2 to 609.6 m) wide and is 4 to
1959 6 ft (1.2 to 1.8 m) deep. Flooding in late winter and early spring occur frequently on the
1960 installation and are often the result of ice jams that obstruct water flows. As a result, a low levee
1961 along the river was constructed in 1967 to protect the buildings (NEANRG 1993).

1962 5.4.2.2 CATS-M

1963 The 100-year floodplain of Johnson Creek passes through the northern half of CATS-M and
1964 covers approximately 89 acres (36 ha) (Figure 6-2) (FEMA 2021).

1965 5.4.2.3 GTS

1966 GTS includes several small drainages classified within the 100-year floodplain (Figure 6-3)
1967 (FEMA 2017). The area is delineated as being susceptible to flooding and having 1% chance of
1968 being equaled or exceeded in any given year. These areas serve to maintain wetlands and
1969 contribute to the diversity of wildlife habitat on the installation.

1970 5.4.2.4 GTS-SC

1971 GTS-SC is located in a rural area within the floodplain of the Platte River and Prairie Creek
1972 (Figure 6-4) (FEMA 2021). The adjacent landforms surrounding GTS-SC generally are
1973 comprised of floodplain valleys and tributary systems draining to the larger nearby Platte and
1974 Loup rivers. The land is generally flat with some depressional areas that could hold water for an
1975 extended period and are considered hydric or partially hydric wetland areas.

1976

6. MISSION IMPACTS ON NATURAL RESOURCES

1977

6.1 NATURAL RESOURCES CONSTRAINTS TO MISSIONS AND MISSION PLANNING

1978

1979 The Sikes Act requires that INRMPs provide for “...no net loss in the capability of military
1980 installation lands to support the military mission of the installation” (16 USC §670 et seq.). The
1981 INRMP enables the installation to meet the requirements of the military mission within the
1982 limitations and legal restrictions of the baseline natural resources at the NEARNG installations.

1983

6.2 LAND USE

1984

6.2.1 CATS

1985 CATS was primarily farmland with bottomland hardwood forest along the banks of the Platte
1986 River before it was established as a military property. Natural resource constraints at CATS are
1987 shown in Figure 6-1. Current principal land uses at CATS consist of training, agriculture,
1988 hunting, recreation, and cantonment.

1989

- Outdoor training operations are conducted throughout the installation. Helicopter operations are held in the maintained/grass areas of CATS. Compass courses, bivouacking, down pilot training, and tactical training occurs in the forested land on the east side of the Platte River. Tactical training and a land navigation course takes place in the forested land on the west side of the Platte River.

1990

1991

1992

1993

1994

- A portion of the grassland area at CATS has been leased to private individuals for hay/agriculture production. Hay/agriculture activity occurs along the far western border of the installation and totals approximately 95 acres.

1995

1996

1997

- Hunting is restricted to the east side of the river and the forested area on the west side of the installment, in an area totaling approximately 350 acres.

1998

1999

- Turner Lake and adjacent camp sites are the primary recreational locations at CATS. They are situated in the southern-most portion of CATS.

2000

2001

- Approximately 110 acres are improved grounds. The cantonment area contains 12 classroom buildings, ten buildings used for enlisted and officer billeting, storage facilities, administrative offices, and vehicle maintenance facilities.

2002

2003

2004

6.2.2 CATS-M

2005 CATS-M was primarily farmland before establishment as a military property. Natural resource
2006 constraints at CATS-M are shown in Figure 6-2. Current principal land uses at CATS-M consist
2007 of agriculture, training, and cantonment.

2008

- The majority of CATS-M is grassland and has been leased to private individuals for hay/agriculture production.

2009

2010 Figure 6-1. CATS Constraints Map

2011 Figure 6-2. CATS-M Constraints Map

2012 • Training primarily consists of vehicle maneuvers, with some limited field training
2013 exercises and land navigation. MOUT missions take place at one of the old missile silos
2014 and at a newly constructed area. Vehicle maneuvers occur primarily on paved or gravel
2015 roads, although there is some off-road training.

2016 • The cantonment area is located in the far southern portion of CATS-M and is comprised
2017 of two buildings, parking lots, roads, and mowed/maintained grass.

2018 **6.2.3 GTS**

2019 GTS was primarily farmland before establishment as military property. Natural resource
2020 constraints at GTS are shown in Figure 6-3. Current principal land uses at GTS consist of
2021 agriculture, training, cantonment, and ammunitions storage.

2022 • The majority of GTS is grassland and has been leased to private individuals for
2023 hay/agriculture production.

2024 • Training at GTS occurs primarily in field settings that encompass the entire installation
2025 and include a MOUT, a multipurpose indoor range facility, mobile conduct of fire trainer,
2026 firing ranges, Tank Crew Proficiency Course, and tank-training activities.

2027 • The cantonment area is situated in the north central portion of the installation. Buildings
2028 in the area include barracks and a dining facility, as well as administrative, facility
2029 maintenance, and training support structures.

2030 • GTS contains many old ammunition bunkers from the NAD. These are now used by the
2031 NEARNG or state organizations for storage of various materials.

2032 **6.2.4 GTS-SC**

2033 GTS-SC was primarily farmland/pasture land before establishment as military property. Natural
2034 resource constraints at GTS-SC are shown in Figure 6-4. Current principal land uses at GTS-SC
2035 consist of agriculture and an abandoned antenna site.

2036 • The majority of GTS-SC is grassland and traditionally leased to private individuals for
2037 hay/agriculture production; however, high amounts of leafy spurge are currently
2038 preventing the grassland from being leased.

2039 • The abandoned antenna site consists of a dormitory and associated pump house, concrete
2040 slabs from demolished buildings and parking lots, and a small electrical substation.

2041 **6.3 CURRENT MAJOR IMPACTS**

2042 **6.3.1 CATS**

2043 The majority of training conducted at CATS revolves around individual soldier training, land
2044 navigation, and basic dismounted maneuvers. The CATS training areas are shown in Figure 6-5.

2045 Figure 6-3. GTS Constraints Map

2046 Figure 6-4. GTS-SC Constraints Map

2047 Figure 6-5. CATS Training Areas Map

2048 Training exercises at CATS have the potential to impact vegetation, soil, water quality, and
2049 noise. Impacts to vegetation are typically minimal and limited to damage to trees and understory
2050 vegetation by dismounted troops and vehicles, and in some cases can simulate natural damage
2051 caused by native animals. Additionally, removal of dead trees/branches can reduce fire hazards,
2052 safety hazards, and physical obstacles to day and night maneuvers. However, if left unmitigated
2053 or done in excess these activities can hinder the habitat's ability to recover and cause long-term
2054 harm to the native vegetation at CATS.

2055 Removal of dead trees to support military training will only occur when leaving them in place
2056 poses a threat or hazard to humans or installation property. Dead or dying trees provide potential
2057 habitat for the Northern long-eared bat; therefore, tree removal will not occur during the
2058 maternity roosting season between June 1 and September 1st. If dead or dying trees pose a threat
2059 to humans or installation property during roosting season, proper agency consultation will be
2060 sought before felling or removing these trees.

2061 Vehicle usage at CATS has the potential to negatively impact vegetation, soil, and water through
2062 compaction, leaving large ruts, contamination, and forest damage. A network of roads is
2063 maintained throughout the installation, which, by nature, alters the vegetation, segments habitat,
2064 and leads to soil compaction.

2065 Helicopter flights and training occur at CATS, and helicopter overflights may have the potential
2066 to impact interior least tern and piping plover nesting sites on sandbars. While there are currently
2067 no mission requirements for helicopters to approach or land on sandbars in the river, guidance
2068 and training will be provided to leadership and helicopter pilots to prevent future operations from
2069 impacting ground nesting shorebirds. Any potential impacts to nesting sites and habitat of these
2070 species will be evaluated through a threatened and endangered species consultation from the
2071 USFWS.

2072 **6.3.2 CATS-M**

2073 The majority of training conducted at CATS-M revolves around field training exercises, driver's
2074 training, land navigation courses, and a tactical training area for aviation assets. The CATS-M
2075 training areas are shown in Figure 6-6, and NEARNG plans to build a firing range on the west
2076 side of the installation. Training exercises at CATS-M have the potential to impact vegetation,
2077 soil, water quality, and noise.

2078 Impacts to vegetation are typically minimal and limited to damage to trees and understory
2079 vegetation by dismounted troops and vehicles, and in some cases, can simulate natural damage
2080 caused by native animals. However, if left unmitigated or done in excess these activities can
2081 hinder the habitat's ability to recover and cause long-term harm to the native vegetation at
2082 CATS-M.

2083 Vehicle usage at CATS-M has the potential to negatively impact vegetation, soil, and water
2084 through compaction, contamination, and vegetation damage. A network of roads are maintained
2085 throughout the installation, which, by nature, alters the vegetation, segments habitat, and leads to
2086 soil compaction.

2087 **6.3.3 GTS**

2088 The majority of training conducted at GTS revolves around weapons qualification and basic
2089 soldiering skills for dismounted troops, with some tactical training for NEARNG aviation assets.
2090 The GTS training areas are shown in Figure 6-7. These training exercises at GTS have the
2091 potential to impact vegetation, soil, water quality, and noise.

2092
2093 Impacts to vegetation are typically minimal and limited to damage to trees and understory
2094 vegetation by dismounted troops and vehicles, and in some cases, can simulate natural damage
2095 caused by native animals. However, if left unmitigated or done in excess these activities can
2096 hinder the habitat's ability to recover and cause long-term harm to the native vegetation at GTS.

2097
2098 Vehicle usage at GTS has the potential to negatively impact vegetation, soil, and water through
2099 compaction, contamination, and vegetation damage. A network of roads is maintained
2100 throughout the installation, which, by nature, alters the vegetation, segments habitat, and leads to
2101 soil compaction.

2102 Figure 6-6. CATS-M Training Areas Map

2103 Figure 6-7. GTS Training Areas Map

2104 6.3.4 GTS-SC

2105 GTS-SC is currently used as a remote facility to train troops for mobilization by helicopter
2106 and/or vehicle. The GTS-SC training area is shown in Figure 6-8. Impacts to the natural
2107 resources at GTS-SC are considered minimal at this time.

2108 The training activities taking place at GTS-SC are very limited. There is potential for future
2109 aviation training at the installation, but there are currently no major potential impacts to
2110 threatened and endangered species from helicopter training at the site. Statewide aviation
2111 mission formal consultation with USFWS will be completed, and conservation measures
2112 implemented if changes to management is needed based on further guidance due to future
2113 potential impacts.

2114 6.4 NATURAL RESOURCES NEEDED TO SUPPORT THE MILITARY MISSION**2115 6.4.1 CATS**

2116 To support the mission at CATS, a moderate degree of forest growth and overhead cover is
2117 necessary. Undulating topography and moderate understory growth is also required to provide
2118 cover, concealment, enfilades and defilades. In general, bivouac areas require some cover,
2119 moderate vegetation growth, and relatively dry land, these requirements depend on the size of the
2120 exercise, type of training being conducted, and the degree of realism desired. Although currently
2121 inactive, historic small arms ranges are present at CATS. Small arms ranges require no
2122 disturbance beyond mowed/maintained vegetation on relatively flat land besides the remaining
2123 berms.

2124 6.4.2 CATS-M

2125 To support the mission at CATS-M, a moderate degree of forest growth, overhead canopy, and
2126 understory growth is necessary to provide cover and concealment. In general, bivouac areas
2127 require some cover, moderate vegetation growth, and relatively dry land, these requirements
2128 depend on the size of the exercise, type of training being conducted, and the degree of realism
2129 desired. The non-traditional firearms range requires flat open terrain with controlled vegetation
2130 growth on the range and butts.

2131 6.4.3 GTS

2132 To support the mission at GTS various types of natural resources are necessary. The live
2133 firearms training and qualification ranges require flat open terrain with controlled vegetation
2134 growth on the range and butts. Access controlled fans and buffer zones are also required for
2135 safety and are located on flat terrain visible to the range personnel. A moderate degree of forest
2136 growth and overhead cover is necessary. Undulating topography and moderate understory
2137 growth is also required to provide cover, concealment, enfilades, and defilades. In general,
2138 bivouac areas require some cover, moderate vegetation growth, and relatively dry land, these
2139 requirements depend on the size of the exercise, type of training being conducted, and the degree
2140 of realism desired.

2141 **6.4.4 GTS-SC**

2142 To support the mission at GTS-SC, the main natural resource needs for training activities include
2143 open land with variably gently sloping topography. Natural resources that will support the
2144 military training mission also include stabilized, native soils, native and adapted vegetation, and
2145 water.

2146

2147 Figure 6-8. GTS-SC Training Areas Map

2148

7. NATURAL RESOURCES PROGRAM MANAGEMENT

2149 This section provides general natural resource management practices that can be applied to
2150 NEARNG installations and when necessary, provide management practices that are installation
2151 specific. Installation goals and objectives are provided in Section 8.

2152 7.1 NATURAL RESOURCES PROGRAM MANAGEMENT

2153 Natural resources program management includes oversight of several key natural resource
2154 elements, including the following:

- 2155 • Fish and Wildlife Management
- 2156 • Outdoor Recreation and Public Access of Natural Resources
- 2157 • Conservation Law Enforcement
- 2158 • Management of Threatened and Endangered Species and Habitats
- 2159 • Water Resources Protection
- 2160 • Wetland Protection
- 2161 • Grounds Maintenance
- 2162 • Forest Management
- 2163 • Wildland Fire Management
- 2164 • Agricultural Outleasing
- 2165 • Invasive Species Management
- 2166 • Cultural Resources Protection
- 2167 • Public Outreach
- 2168 • Geographic Information System
- 2169 • Noise
- 2170 • Climate Change.

2171 7.2 FISH AND WILDLIFE MANAGEMENT

2172 AR 200-1 requires the conduct of Army habitat management efforts in a manner that conserves
2173 and enhances biological diversity, while being consistent with Army goals to accomplish the
2174 military mission. The regulation also requires that the management of environmentally sensitive
2175 areas and areas of special management concern receive primary consideration. Habitat
2176 management activities on NEARNG installations are directed toward the maintenance of healthy
2177 ecosystems and the restoration of degraded ecosystems.

2178 Wildlife habitat is a complex mixture of plant communities or cover types that all play a role in
2179 meeting the needs of particular species, and all must occur within the species' normal range for
2180 the species to be present. The arrangement and interspersions of cover types or plant

2181 communities is important to wildlife, for wildlife distributions can vary depending on
2182 management of habitat types and the combinations and scattering of cover types. Consult the
2183 NGPC and other state agencies such as the County Extension Service and local Natural Resource
2184 District for more explicit management techniques and options on wildlife habitat improvement.

2185 **7.2.1 CATS**

2186 The basis for managing a rich assemblage of game and nongame wildlife is to provide a mosaic
2187 of habitat that is structurally and biologically diverse. The habitat types on CATS include
2188 wetlands, open water systems, riparian, grasslands, and forest.

2189 **7.2.1.1 Wetland, Open Water, and Riparian Habitat**

2190 The aquatic and riparian habitats on CATS are important not only for local wildlife populations
2191 but also for migratory Neotropical birds and waterfowl. Protection, restoration, and management
2192 of these habitats are essential to maintain and enhance wildlife populations. Important habitat
2193 components that can influence species associations and number include the availability, depth,
2194 and permanence of water; plant diversity and structure; size of the area; and the quality of
2195 invertebrate life. Smaller species requiring only low cover (sparrows, rodents, shorebirds) for
2196 breeding or transients using the area for food will more likely use a wetland dominated by non-
2197 persistent plants and water cover. The more persistent and taller vegetation of deeper wetlands
2198 supports larger wildlife species that need cover, support for nests, and the foods associated with
2199 water that is more permanent.

2200 Riparian zones are lands adjacent to streams, rivers, lakes, and wetlands. They are highly
2201 productive ecosystems because they receive nutrients, water, and energy from adjacent uplands.
2202 Riparian zones are also important habitats for wildlife because the vegetation they support is
2203 often unique and very diverse. Riparian zones tend to be linear and create travel corridors to
2204 other habitat types. Riparian zones and wetland areas serve to enhance and protect the quality of
2205 water entering rivers, stream, lakes, and groundwater by capturing and holding the sediment,
2206 nutrients, and pollutants from runoff, and increasing groundwater recharge. Enhancement and
2207 protection of these resources is critical to the health and productivity of the surrounding
2208 ecosystems and can also provide water quality benefits to downstream users. Management of
2209 wetland, open water, and riparian habitats includes the following.

- 2210 • Protect and maintain riparian and wetland habitat to continue to provide essential
2211 breeding, spawning, nesting, and wintering habitats for fish and wildlife species, as well
2212 as water quality enhancement and as protection for surface and groundwater resources in
2213 the watershed.
- 2214 • Enhance wetlands, ponds, and lakes for waterfowl, water birds, and aquatic mammals.
- 2215 • Conduct riparian habitat assessments to document conditions, assess status and trends,
2216 and monitor future conditions.

2217 7.2.1.2 Grassland Habitat

2218 Important grassland habitat components that influence faunal species associations and numbers
2219 include the amount of nesting and winter cover; the diversity and structure of the grassland; and
2220 the nutritional value of the grassland. In addition, brood and young survival can greatly depend
2221 on the management of the habitat. In order to maintain diversity and structure of the
2222 grassland, encroachment of woody and invasive species should be managed by prescribed
2223 burning and mechanical thinning. Prescribed fire is very effective and inexpensive against
2224 smaller Eastern red cedar trees, and since Eastern cottonwoods are a weak sprouter, fire
2225 generally kills it. Management of grassland plant communities to optimize wildlife habitat and
2226 enhance and restore native grassland communities and their associated native fauna includes the
2227 following.

- 2228 • Use prescribed burns and mechanical treatments to control woody encroachment and
2229 woody invasive species such as eastern red cedar.
- 2230 • Implement a haying timetable and strategy to allow sufficient plant growth for wildlife
2231 species. No haying operations should occur prior to August 1st.
- 2232 • Stimulate legumes, plant native grasses and forbs, and control invading trees.

2233 7.2.1.3 Forest Habitat

2234 CATS's forest habitat is consistent with that of a mixed bottomland hardwood community.
2235 Important habitat components in forested areas that are critical for certain wildlife species
2236 include various vegetation elements, such as riparian zones, snags, logs, forest openings, edges,
2237 elevated perches, nest cavities, litter and woody debris on the forest floor. Snags and coarse
2238 woody debris found in mature woodlands serve several ecological functions. They provide
2239 structural habitat for various plant and animal species, are potentially important in long-term
2240 nutrient cycling, and help minimize effects caused by erosion to soil and water resources.
2241 Standing dead and dying trees, snags, and live trees with natural cavities are important habitat
2242 components for many species: they provide foraging, nesting, roosting and perching sites. These
2243 features are important habitat for the many bat species observed at CATS, including the
2244 threatened NLEB. NLEB use forest habitat for roosting, foraging, and commuting to and from
2245 their hibernacula location. Alive and dead trees, as well as snags and logs on the forest floor
2246 provide cracks and crevices for NLEB roosting. Bat survey information at CATS can be found in
2247 Section 5.2.2.1. Woody debris, especially large logs, is an important habitat component for many
2248 forest-dwelling species. Avian species and numerous species of mammals use these logs as sites
2249 for reproduction, foraging and cover. Decaying logs on the forest floor also support several
2250 species of amphibians and reptiles. Within a habitat, the vegetation composition also affects
2251 wildlife distributions through characteristics such as species palatability and food value. Invasive
2252 species, such as the emerald ash borer (EAB), have the potential to negatively impact forest
2253 habitat composition and structure. Currently, EAB is not found or considered a problem at CATS
2254 but monitoring the forest resource for the presence of invasive species will ensure early detection
2255 and eradication of undesirable species. Management of forested habitats includes the following.

- 2256 • Maintain and preserve native forested areas to provide habitat for a variety of avian
2257 species and wildlife.
- 2258 • Enhance the forested areas to promote wildlife habitat and diversity.
- 2259 • Monitor forested areas for the presence of invasive floral or faunal invasive species
2260 through annual surveys.
- 2261 • Preserve native forest resource to protect and provide habitat for potential threatened and
2262 endangered species on the installation.
- 2263 • Remove dead or dying trees only outside of roosting season to prevent loss of habitat for
2264 NLEB and other forest-dwelling species.

2265 **7.2.2 CATS-M**

2266 The basis for managing a rich assemblage of game and nongame wildlife is to provide a mosaic of
2267 habitat that is structurally and biologically diverse. The habitat types on CATS-M include
2268 wetlands, riparian, grasslands, and forest.

2269 **7.2.2.1 Wetland and Riparian Habitat**

2270 The wetland habitats are areas that are either ponded or contain subsurface saturation for periods
2271 during the growing season. Seasonal wetland areas are generally surface depressions within the
2272 agricultural fields. These wetlands habitats are important not only for local wildlife populations
2273 but also for migratory Neotropical birds and waterfowl. Protection, restoration, and management
2274 of wetlands are essential to maintain and enhance these populations. Important habitat
2275 components that can influence species associations and number include the availability, depth,
2276 and permanence of water; plant diversity and structure; size of the wetland; and the quality of
2277 invertebrate life. Breeding by smaller species requiring only low cover (sparrows, rodents, and
2278 shorebirds) or by transients using the area for food is likely to occur in a wetland dominated by
2279 non-persistent plants and water cover.

2280 Riparian zones are lands adjacent to streams, rivers, lakes, and wetlands. They are highly
2281 productive ecosystems because they receive nutrients, water, and energy from adjacent uplands.
2282 Riparian zones are also important habitats for wildlife because the vegetation they support is
2283 often unique and very diverse. Riparian zones tend to be linear and create travel corridors to
2284 other habitat types. Important habitat elements for wildlife in riparian areas include the plant
2285 community size (number of acres), continuity of habitat, and water. The size of the habitat can
2286 influence the abundance of species; a larger area may provide greater diversity of species and
2287 utility of the habitat. The continuity of riparian habitat along the streambed aids in dispersal
2288 routes by small mammals, reptiles, and amphibians. Riparian zones and wetland areas serve to
2289 enhance and protect the quality of water entering rivers, stream, lakes, and groundwater by
2290 capturing and holding the sediment, nutrients, and pollutants from runoff, and increasing
2291 groundwater recharge. Enhancement and protection of these resources is critical to the health and
2292 productivity of the surrounding ecosystems and can also provide water quality benefits to
2293 downstream users. Management of wetland and riparian habitats includes the following.

- 2294 • Protect and maintain wetland and riparian habitat to continue to provide essential
2295 breeding, spawning, nesting, and wintering habitats for wildlife species, as well as
2296 protection for the water quality of the watershed.
- 2297 • Enhance wetlands for waterfowl, water birds, in addition to some mammals.
- 2298 • Conduct habitat assessments to assess the status and trends of the aquatic resource, and
2299 monitor future conditions.

2300 **7.2.2.2 Grassland Habitat**

2301 Important grassland habitat components that influence faunal species associations and numbers
2302 include the amount of nesting and winter cover; the diversity and structure of the grassland; and
2303 the nutritional value of the grassland. In addition, brood and young survival can greatly depend
2304 on the management of the habitat. Management of grassland plant communities to optimize
2305 wildlife habitat and enhance and restore native grassland communities and their associated native
2306 fauna includes the following.

2307 Controlling floral invasive species will ensure optimal habitat and forage conditions for
2308 grassland species. A total of nine invasive and noxious floral species were identified during a
2309 recent flora inventory (7.13.1). When managing invasive species at CATS, special consideration
2310 should be given to surface and groundwater resources at the site.

- 2311
- 2312 • Implement a haying timetable and strategy to allow sufficient plant growth for wildlife
2313 species. No haying operations should occur prior to August 1.
- 2314 • Plant native grasses and forbs and control invading trees.
- 2315 • Continue monitoring and managing for invasive species outlined in Section 7.13.1 in
2316 grassland habitat areas.

2317 **7.2.2.3 Forest Habitat**

2318 The forest habitat consists of trees in small woodlands and along Johnson Creek and roadsides at
2319 CATS-M. Important habitat components in forest areas that are critical for certain wildlife
2320 species include various vegetation elements, such as snags, edges, elevated perches, nest cavities,
2321 and litter on the woodland floor. Live trees with natural cavities are important habitat
2322 components for many species: they provide foraging, nesting, roosting, and perching sites.
2323 Within a habitat, the vegetation composition also affects wildlife distributions through
2324 characteristics such as species palatability and food value. Management of forested habitats
2325 includes the following.

- 2326 • Maintain and enhance unique trees and diversity in woodland stands that are beneficial to
2327 wildlife.
- 2328 • Allowing natural succession to revegetate areas or plant trees and shrubs to intersperse
2329 cover types.

2330 **7.2.3 GTS**

2331 The basis for managing a rich assemblage of game and nongame wildlife is to provide a mosaic
2332 of habitat that is structurally and biologically diverse. The habitat types on GTS include
2333 wetlands, riparian, grasslands, windrows, and woodlands.

2334

2335 **7.2.3.1 Wetland and Riparian Habitat**

2336 The aquatic habitats on GTS are areas that are either ponded or contain subsurface saturation for
2337 periods during the growing season. Wetland areas are located primarily in depressions in swales
2338 and agricultural fields and along intermittent stream corridors. These wetland habitats are
2339 important not only for local wildlife populations but also for migratory Neotropical birds and
2340 waterfowl. Protection, restoration, and management of wetlands are essential to maintain and
2341 enhance these populations. Important habitat components that can influence species associations
2342 and number include the availability, depth, and permanence of water; plant diversity and
2343 structure; size of the wetland; and the quality of invertebrate life. A wetland dominated by non-
2344 persistent plants and water cover is likely to be used for breeding by smaller species requiring
2345 only low cover (sparrows, rodents, shorebirds) or by transients using the area for food. The more
2346 persistent and taller vegetation of deeper wetlands supports larger wildlife species that need
2347 cover, support for nests, and the foods associated with more permanent water.

2348 Riparian zones are lands adjacent to streams, rivers, lakes, and wetlands. They can be highly
2349 productive ecosystems because they receive nutrients, water, and energy from adjacent uplands.
2350 Riparian zones are also important habitats for wildlife because the vegetation they support is
2351 often unique and very diverse. Riparian zones tend to be linear and create travel corridors to
2352 other habitat types. Important habitat elements for wildlife in riparian areas include the plant
2353 community size (number of acres), continuity of habitat, and water. The size of the habitat can
2354 influence the abundance of species; a larger area may provide greater diversity of species and
2355 utility of the habitat. The continuity of riparian habitat along the streambed creates dispersal
2356 routes for small mammals, reptiles, and amphibians. Management of wetland and riparian
2357 habitats includes the following.

2358 • Protect and maintain wetland habitat to continue to provide essential breeding, spawning,
2359 nesting, and wintering habitats for wildlife species.

2360 • Enhance wetlands for waterfowl, water birds, in addition to some mammals.

2361 • Conduct habitat assessments to assess the status and trends of the aquatic resource and
2362 monitor future conditions.

2363 **7.2.3.2 Grassland Habitat**

2364 Important grassland habitat components that influence faunal species associations and numbers
2365 include the amount of nesting and winter cover; the diversity and structure of the grassland; and
2366 the nutritional value of the grassland. In addition, brood and young survival can greatly depend
2367 on the management of the habitat. Management of grassland plant communities to optimize

2368 wildlife habitat and enhance and restore native grassland communities and their associated native
2369 fauna includes the following.

- 2370 • Implement a haying timetable and strategy to allow sufficient plant growth for wildlife
2371 species. No haying operations should occur prior to August 1.
- 2372 • Plant native grasses and forbs and control invading trees.

2373 **7.2.3.3 Windrows and Woodland Habitat**

2374 Windrows provide nesting areas and food for wildlife species, as well as protective cover when
2375 they forage in adjacent areas. They are also important in the winter in providing shelter from
2376 exposure to the wind. Shrubs and ground cover on the lee side allow wildlife to perch or rest out
2377 of the wind. Windbreaks are also used as travel lanes, providing safe routes from one habitat to
2378 another. Additionally, songbirds may use these areas as stopover points on their migration routes
2379 in the spring and fall.

2380 A variety of deciduous tree and shrub species provide a habitat structure with a large selection of
2381 vertical and horizontal nesting and foraging sites. Conifers provide protected sites for early
2382 spring nesters, shelter for migrating songbirds, and winter roosting and loafing sites for species.

- 2383 • Maintain existing low-growing shrubs for food and cover.
- 2384 • Enhance the forested areas to promote wildlife habitat and diversity.

2385 **7.2.4 GTS-SC**

2386 The basis for managing a rich assemblage of game and nongame wildlife is to provide a mosaic
2387 of habitat that is structurally and biologically diverse. The habitat types on GTS-SC include
2388 wetlands and grasslands.

2389 **7.2.4.1 Wetland Habitat**

2391 The aquatic habitats on GTS-SC are areas that are either ponded or contain subsurface saturation
2392 for periods during the growing season. Wetland areas are located primarily in depressions in
2393 swales and agricultural fields and along intermittent stream corridors. These wetland habitats are
2394 important not only for local wildlife populations but also for migratory Neotropical birds and
2395 waterfowl. Protection, restoration, and management of wetlands are essential to maintain and
2396 enhance these populations. Important habitat components that can influence species associations
2397 and number include the availability, depth, and permanence of water; plant diversity and
2398 structure; size of the wetland; and the quality of invertebrate life. A wetland dominated by non-
2399 persistent plants and water cover is likely to be used for breeding by smaller species requiring
2400 only low cover (sparrows, rodents, shorebirds) or by transients using the area for food. The more
2401 persistent and taller vegetation of deeper wetlands supports larger wildlife species that need
2402 cover, support for nests, and the foods associated with more permanent water.

- 2403 • Protect and maintain wetland habitat to continue to provide essential breeding, spawning,
2404 nesting, and wintering habitats for wildlife species.

- 2405 • Enhance wetlands for waterfowl, water birds, in addition to some mammals.
- 2406 • Conduct habitat assessments to assess the status and trends of the aquatic resource and
2407 monitor future conditions.

2408 **7.2.4.2 Grassland Habitat**

2409 Important grassland habitat components that influence faunal species associations and numbers
2410 include the amount of nesting and winter cover; the diversity and structure of the grassland; and
2411 the nutritional value of the grassland. In addition, brood and young survival can greatly depend
2412 on the management of the habitat. Management of grassland plant communities to optimize
2413 wildlife habitat and enhance and restore native grassland communities and their associated native
2414 fauna includes the following.

2415 Controlling floral invasive species will ensure optimal habitat and forage conditions for
2416 grassland species. A total of five invasive and noxious floral species were identified during a
2417 2020-2021 flora planning level survey. Specific surface conditions require special
2418 consideration when managing for invasive species in grassland habitat at GTS-SC (7.13.4).

- 2419 • Implement a haying timetable and strategy to allow sufficient plant growth for wildlife
2420 species. No haying operations should occur prior to August 1.
- 2421 • Plant a mixture of tall and short grasses. This provides a mosaic of vegetative heights for
2422 attraction of a large variety of avian species and other wildlife.
- 2423 • Continue monitoring and managing for invasive species outlined in Section 7.13.4 in
2424 grassland habitat areas.

2425 **7.3 OUTDOOR RECREATION AND PUBLIC ACCESS TO NATURAL RESOURCES**

2426 Whenever practical, Army lands with suitable natural resources will be managed to allow for
2427 outdoor recreational opportunities. Installations having natural resources suitable to outdoor
2428 recreation in addition to hunting, fishing, and trapping are encouraged to develop cooperative
2429 agreements with the National Park Service and appropriate state agencies to facilitate the
2430 development and management of those programs. Public access to Army properties for outdoor
2431 recreation will be allowed whenever compatible with public safety and mission activities.
2432 Natural resources used for outdoor recreation on Army land are considered part of the land and
2433 belong to the public.

2434 **7.3.1 CATS**

2435 CATS provides some limited outdoor recreational opportunities in the forms of hunting,
2436 camping, fishing, and a small baseball field to the north of the classroom facilities.

2437 **7.3.1.1 Public Access**

2438 CATS is a nonresidential installation with few public outdoor recreation facilities or activities,
2439 available only to current or retired Nebraska Guard personnel or Department of Military

2440 employees. At CATS, outdoor recreation must be limited due to the primary mission of the
2441 installation, limited access to areas, limited recreation opportunities, and lack of Law
2442 Enforcement Personnel. However, the most notable public outdoor recreational uses of the
2443 installation are big game hunting in the fall and morel mushroom hunting in the spring on the
2444 east side of the Platte River. The west side of the Platte River is primarily used for military
2445 purposes and agriculture. The only areas on the west banks of the Platte River that are
2446 considered suitable for recreation include Turner Lake, a few Platte River inlet areas at the north
2447 end of the property and select facilities in the cantonment area. Along with the hunting
2448 opportunities mentioned, CATS allows fishing using the Platte River inlets on the east and west
2449 sides as well as camping and fishing opportunities around Turner Lake. Stand-alone cabins,
2450 rooms for stay and Memorial Hall are available for rent in the cantonment area. Hotel/dorm-like
2451 rooms for stay and Memorial Hall are also available for rent. Memorial Hall is often used for
2452 larger functions including interest group meetings and ceremonial functions (e.g., weddings). All
2453 facilities are available on a first-come, first-served basis when not in use for military support.
2454 CATS Training Site Staff administers all rental services.

2455 All hunting and fishing are available on a first-come, first-served basis with no associated
2456 admission fees on behalf of CATS. Any state permitting requirements and cost are the
2457 responsibility of individual to obtain. These activities are restricted to Nebraska National Guard
2458 Members (active and retired) and NMD employees and guests.

2459 Information such as the number of users to the facility for recreational purposes is necessary for
2460 proper management of the area for plant and wildlife health. Maintaining an adequate record of
2461 all users of the recreation facilities to help monitor any impacts is necessary.

2462 For the safety of recreational users, adequate signage indicating off-limits areas is appropriately
2463 located throughout the installation. An informational sign may include emergency contact
2464 information for recreation users, camper registration (number of people in party, number of
2465 vehicles, license plate number, length of stay), rules and regulations, and a site map (including
2466 the recreation area and restricted areas). The current camping rules and regulations in place
2467 restrict the use of firearms, fireworks, and limits open fires. Place safety rules for anglers in the
2468 designated fishing areas in addition to marking designated no-fishing areas. In addition, any
2469 person entering the installation for any purpose prohibited by law or lawful regulation is
2470 trespassing. Trespassing is a serious matter in that it may endanger the life of the person entering
2471 the installation as well as potentially endangering lives of Army National Guardsmen and
2472 interfering with training.

2473 Safety measures at CATS are dictated by the installation regulation and oral policy, which
2474 prohibits the use of blanks and pyrotechnics on the portion of CATS south of an east-west line
2475 originating on the north side of Building 450 (the General's Cabin), where the recreational
2476 activities reside. There is no firing of service (live) ammunition allowed at CATS. CATS also
2477 has no active basic weapons marksmanship ranges, no direct fire gunnery ranges, no collective
2478 live fire ranges, no indirect fire ranges, and no special live fire ranges to create the need for other
2479 safety measures for outdoor recreational opportunities. CATS' personnel and law enforcement
2480 are the main sources of enforcement and security on the installation.

2481 **7.3.1.2 Hunting**

2482 The NEARNG, in cooperation with the NGPC, initiated big game hunting for white-tailed deer
2483 in the fall of 1999 to determine population densities and serve as a measure of population
2484 control. However, hunting also serves to improve overall quality of wildlife habitat, reduce
2485 safety hazards to troops, and assist in reducing conflicts with adjacent landowners, while
2486 providing the public with a quality recreational opportunity. To further assist in these
2487 management goals, turkey and waterfowl hunting are also available on the property east side.
2488 Consultation between the NEARNG and NGPC provide hunting recommendations for the area
2489 that ensure the harvest levels are appropriate for both recreational and biological purposes.
2490 Hunting will continue in future years until enough information is gathered to project future
2491 population needs and as the military mission allows. As part of the cooperative agreement
2492 between NEARNG and the NGPC, the permit schedules and the basic hunting regulations for the
2493 NEARNG are the same as those established for the State of Nebraska. Safety is the key issue
2494 with all permitted hunting; therefore, hunts must occur only when the sites are not used to
2495 support troop training. Only archery and muzzleloaders are permitted for deer hunting while only
2496 archery is allowed for turkey hunting. The east side is portioned into three hunting areas, each
2497 allowing one user to do one activity at a time. Guidelines for Management of Hunting Activities
2498 include the following.

- 2499 • Preseason scouting, by licensed hunters, is allowed on the weekend prior to the hunt
2500 between 10:00am and 3:00pm. The hunter must carry a valid deer permit while scouting;
2501 this serves as authorization to be on the property.
- 2502 • Adequate safety measures must be implemented. This includes knowing standard state
2503 hunting regulations, as well as regulations for the area you are hunting. It is always
2504 recommended to wear blaze orange, no matter the hunting season.
- 2505 • During preseason scouting and during the hunt itself, the hunter will not be accompanied
2506 by anyone else, unless they also have a permit for that particular National Guard unit;
2507 however, hunters may enlist the aid of others to help retrieve harvested deer.
- 2508 • Use of tree stands is authorized for these hunts, although hunters must have permission to
2509 use existing stands on these areas. Tree stands must be taken down at the conclusion of
2510 the hunting season. Consult Nebraska tree stand safety rules, which include using the
2511 “three points of contact” rule when climbing a tree and never hanging a tree stand alone.
- 2512 • It is recommended that all deer harvested during these hunts be checked in at the Ak-sar-
2513 ben Aquarium. Although these deer can be checked at any firearm check station for the
2514 early hunt, any archery/muzzleloader check stations for the middle hunt, or any late
2515 season check station for the late hunt, checking at Ak-sar-ben Aquarium will help NGPC
2516 evaluate the hunt and monitor problems that might arise.
- 2517 • All hunting at CATS will be in accordance with the hunting permit regulations as
2518 provided by the NGPC.

2519 Hunting limits are determined for each year from NEARNG monitoring activities. A deer
2520 population survey is carried out every summer to monitor deer populations and how they are
2521 affected by hunting on the installation. Waterfowl and turkey population surveys are not
2522 conducted, however, any species taken must be recorded and submitted to CATS Recreational
2523 Access. This serves to monitor species being harvested from the installation.

2524 **7.3.1.3 Platte River Access**

2525 The Platte River flows northwest to southeast through the installation. Public kayak, canoe, and
2526 airboat traffic are permitted to pass through the installation, although they are restricted to the
2527 banks of the river and are not permitted to enter onto CATS installation property. Appropriate
2528 signage of these restrictions is present on sandbars in the channel of the river. There is no public
2529 river access from the installation.

2530 **7.3.1.4 Fishing**

2531 The permits and the basic fishing regulations for NEARNG are the same as those established for
2532 the State of Nebraska by the NGPC. At CATS, the current areas where fishing is allowed for
2533 Nebraska National Guard Members (active and retired) and NMD employees and guests include
2534 Turner Lake, the western bank of the Platte River, and waterways on the east side. Turner Lake
2535 is currently used as a training site for Downed Pilot Recovery (helicopter training). Public
2536 fishing is permitted within the Platte River, although entering CATS property is strictly
2537 prohibited. Management of fisheries for CATS that enhance the fishing opportunities for anglers,
2538 while promoting sustainable populations of the species most suitable for each water body include
2539 the following.

- 2540 • Ensure the size, structure, and biological integrity of the fish communities.
- 2541 • Detect improvements or degradation in the quality of the stream or lake habitat.
- 2542 • Avoid impacting bodies of water known to support fisheries resources.

2543 All fish species caught must be recorded and submitted to CATS Recreational Access. This
2544 serves to monitor the species and numbers of fish encountered on CATS property. This includes
2545 Turner lake and channels on the east side of the installation.

2546 **7.3.1.5 Trapping**

2547 Trapping at CATS is primarily in the forested areas to remove nuisance animals as needed.
2548 Trapping of beavers on the installation may serve as a control measure when their activities are
2549 obstructing military objectives or damaging the infrastructure. All trapping activity must be
2550 coordinated through installation management prior to use. NGPC regulation, season timing, and
2551 permit requirements apply for all trapping activity at CATS.

2552 **7.3.1.6 Camping**

2553 CATS provides camping facilities adjacent to Turner Lake. The installation has campground
2554 amenities including: 19 cement camping pads (each consisting of two concrete lanes), picnic

2555 shelter with picnic benches, 6 electrical hookups, a ready water supply (4 spigots in the area),
2556 trash disposal areas, fixed grills, on average four portable latrines, and three stand-alone cabins.
2557 Military affiliates and guests may camp and fish at the installation with proper identification and
2558 permission from the Training Site Supervisor. Use of the camping and fishing areas and related
2559 facilities averages 35/weekends/year.

2560 **7.3.1.7 Morel Mushroom Hunting**

2561 Morel mushroom hunting for authorized individuals is a high-interest activity every spring at
2562 CATS. Its popularity and relatively simple procedure can make portions of the installation
2563 susceptible to trespassers. Property boundary locations and staff availability make it impractical
2564 to patrol all areas continuously. This is an issue that is monitored as closely as possible through
2565 CATS staff with the help of local law enforcement.

2566 **7.3.2 CATS-M**

2567 CATS-M has no authorized recreational activities and facilities.

2568 **7.3.3 GTS**

2569 GTS has no authorized recreational activities or facilities.

2570 **7.3.4 GTS-SC**

2571 GTS-SC has no authorized recreational activities or facilities.

2572 **7.4 CONSERVATION LAW ENFORCEMENT**

2573 Enforcement of the policies and procedures are the responsibility of the NEARNG
2574 environmental program manager and, ultimately, the G3 Director of Operations. The County
2575 Sheriff's Department is the primary law enforcement agency and range control personnel are
2576 trained to provide initial fire control attack. The range control personnel conduct regular patrols
2577 (when feasible), observing on-site activities, and notify the appropriate federal, state, or local law
2578 enforcement agency when enforcement services are needed.

2579 **7.4.1 CATS**

2580 At CATS, the Site Manager conducts routine patrols, observes all activities on the installation,
2581 and notifies the appropriate law enforcement agency as needed. CATS regularly works with the
2582 county and local police departments for enforcement action needed. NGPC is involved when
2583 needed for wildlife or habitat concerns. Security fencing is also utilized for access control. Gate
2584 entry is permitted through installation staff.

2585 **7.4.2 CATS-M**

2586 At CATS-M, the Site Manager conducts routine patrols, observes all activities on the installation,
2587 and notifies the appropriate state or county law enforcement agency as needed. The installation
2588 regularly works with the county police department for enforcement action needed. NGPC is

2589 involved when needed for wildlife or habitat concerns. Security fencing is also utilized for
2590 access control. Gate entry is permitted through installation staff.

2591 **7.4.3 GTS**

2592 At GTS, the Site Manager conducts routine patrols, observes all activities on the installation, and
2593 notifies the appropriate state agency when law enforcement is needed. GTS regularly works
2594 with the county and local police departments for enforcement action needed. NGPC is involved
2595 when needed for wildlife or habitat concerns. Security fencing is also utilized for access control.
2596 Gate entry is permitted through installation staff.

2597 **7.4.4 GTS-SC**

2598 At GTS-SC, installation security is managed by GTS site staff. Range control personnel conduct
2599 patrols when feasible and utilizes local law enforcement for additional patrol assistance. The
2600 installation regularly works with the county police department for enforcement action needed.
2601 NGPC is involved when needed for wildlife or habitat concerns. Security fencing is also utilized
2602 for access control. Gate entry is permitted through installation staff.

2603 **7.5 MANAGEMENT OF THREATENED AND ENDANGERED SPECIES**

2604 NEARNG's strategy for the management of threatened and endangered species such as the
2605 whooping crane, piping plover, and northern long-eared bat (NLEB) is the preservation and
2606 management of critical habitat for these species, while maintaining adequate area to support the
2607 military mission. NEARNG conducts flora and fauna surveys and monitoring projects each year
2608 track relative species populations and the quality of their habitat on the installations. NEARNG
2609 is committed to monitoring and survey projects to delineate areas of potential habitat and
2610 occurrence to protect threatened and endangered species and prevent impacts from installation
2611 training activities. Installation-specific information on threatened and endangered species is
2612 included in Section 5.3.

2613 **7.5.1 CATS**

2614 The species listed in Section 5.3.1 above have the potential to occur in Sarpy and/or Saunders
2615 County, near CATS. The following are preferred general management practices for protected
2616 species with the potential to occur on CATS.

- 2617 • Preserve and protect known and potential habitat for protected species. This includes
2618 protection of sandbar habitat in the Platte River channel for piping plover and interior
2619 least tern nesting.
- 2620 • Implement conservation measures to avoid impact to NLEBs on the installation as set
2621 forth by the voluntary conference between NMD and USFWS for CATS. These
2622 conservation measures include:
 - 2623 ○ Avoid tree clearing activities from April 1st – September 30th to avoid direct
2624 effects to female and juvenile NLEB.

- 2625 ○ Retain and avoid impacting potential roost trees and leave dead or dying trees
2626 standing where possible and not a safety hazard.
- 2627 ○ Avoid prescribed burns during swarming or staging season. Coordinate with
2628 USFWS prior to burns.
- 2629 ○ Avoid conduction construction activities after sunset in known or suitable habitat.
- 2630 ○ Retain and avoid impacting potential roost trees.
- 2631 ○ Conduct annual bat surveys as federal funding allows.
- 2632 ● Conduct surveys for listed plants and animals and monitor their habitats. This includes:
 - 2633 ○ Annual surveys monitoring occurrence and activity from bald eagles and
2634 whooping cranes as they occupy the installation, and
 - 2635 ○ Annual nesting surveys for interior least terns and piping plovers.
- 2636 ● Avoid Platte River for all training activities to minimize potential for incidental take of
2637 threatened and endangered species.
- 2638 ● Whooping cranes have the potential to occur at CATS. Train all installation personnel to
2639 notify NMD of presence of large white birds, implement avoidance if encountered, and
2640 contact USFWS for consultation.
- 2641 ● Conduct annual flora and fauna surveys, seek USFWS consultation if threatened or
2642 endangered species are identified.

2643 7.5.2 CATS-M

2644 The species listed in Section 5.3.2 above have the potential to occur in Saunders County, near
2645 CATS-M. The following are preferred general management practices for protected species with
2646 the potential to occur on CATS-M.

- 2647 ● Preserve and protect known and potential habitat for protected species.
- 2648 ● Conduct surveys for listed plants and animals and monitor their habitats.
- 2649 ● NLEB has the potential to occur at CATS-M. Implement conservation measures to avoid
2650 impact to NLEBs on the installation.
 - 2651 ○ Avoid tree clearing activities from April 1st – September 30th to avoid direct
2652 effects to female and juvenile NLEB.
 - 2653 ○ Retain and avoid impacting potential roost trees and leave dead or dying trees
2654 standing where possible and not a safety hazard.

- 2655 ○ Avoid prescribed burns during swarming or staging season. Coordinate with
2656 USFWS prior to burns.
- 2657 ○ Avoid conduction construction activities after sunset in known or suitable habitat.
- 2658 ○ Retain and avoid impacting potential roost trees.
- 2659 ○ Conduct annual bat surveys as federal funding allows.
- 2660 ● Conduct annual flora and fauna surveys as funding allows, seek USFWS consultation if
2661 threatened or endangered species are identified.

2662

2663 7.5.3 GTS

2664 The species listed in Section 5.3.3 above have the potential to occur in Adams County, near
2665 GTS. The following are preferred general management practices for protected species with the
2666 potential to occur on GTS.

- 2667 ● Preserve and protect known and potential habitat for protected species.
- 2668 ● Conduct surveys for listed plants and animals and monitor their habitats.
- 2669 ● Whooping cranes have the potential to occur at GTS. Train all installation personnel to
2670 notify NMD of presence of large white birds, implement avoidance if encountered, and
2671 contact USFWS for consultation.
- 2672
- 2673 ● Conduct annual flora and fauna surveys as funding allows, seek USFWS consultation if
2674 threatened or endangered species are identified.

2675 7.5.4 GTS-SC

2676 The species listed in Section 5.3.4 above have the potential to occur in Nance County, near GTS-
2677 SC. The following are preferred general management practices for protected species with the
2678 potential to occur on GTS-SC.

- 2679 ● Preserve and protect known and potential habitat for protected species.
- 2680 ● Conduct surveys for listed plants and animals and monitor their habitats.
- 2681 ● Conduct annual flora and fauna surveys as funding allows, seek USFWS consultation if
2682 threatened or endangered species are identified.

2683 7.6 WATER RESOURCES PROTECTION**2684 7.6.1 CATS**

2685 Management of water resources at CATS includes the following.

2686

- 2687 • Limit the impact on water bodies and riparian buffers caused by training exercises.
- 2688 • Maintain a 50-meter-wide buffer around all waterways and creeks to protect and improve
2689 the quality of water entering these waterways and creeks.
2690
- 2691 • Conduct routine water quality analyses (monitoring surface water quality, biomonitoring)
2692 on all water bodies within the boundaries of the installation to ensure that water quality
2693 standards comply with the standards set by the CWA.
- 2694 • Monitor and maintain potable water standards through quarterly testing.
- 2695 • Protect surface water resources including the Platte River and side channels by following
2696 recommended best management practices for proposed construction activities in the
2697 vicinity of streams and rivers (FISRWG 1998).

2698 **7.6.2 CATS-M**

2699 The USACE conducts monitoring of monitoring wells at CATS-M owned by the Nebraska
2700 Military Department and the frequency of monitoring varies depending on the project and
2701 operating unit (Fritsch pers comm. 2000). The Ashland library archives data from the USACE
2702 project.

2703 NEARNG performs water quality testing on a quarterly basis on filtered drinking water as a part
2704 of a drinking water permit for any potable water. The USACE Kansas City Division is currently
2705 responsible for groundwater testing via groundwater monitoring wells in and around CATS-M
2706 installation in conjunction with potential TCE groundwater contamination offsite. The Kansas
2707 City USACE does not directly report to NEARNG for groundwater testing results. Currently,
2708 there is no threat to installation activities due to groundwater contamination.

2709 Management of water resources at CATS-M includes the following.

- 2710 • Limit the impact on water bodies and riparian buffers caused by training exercises.
- 2711 • Maintain a 50-meter-wide buffer around all waterways and creeks to protect and improve
2712 the quality of water entering these waterways and creeks.
- 2713 • Monitor and maintain potable water standards through quarterly testing.
- 2714 • Monitor potential threats to installation groundwater resources from off-site
2715 contamination sources and work with appropriate agencies in the event a threat becomes
2716 apparent.

2717 **7.6.3 GTS**

2718 The monitoring wells at GTS owned by the Nebraska Military Department are monitored by the
2719 USACE and the frequency of monitoring varies, depending on the project and operating unit
2720 (Fritsch pers. comm. 2001). The data from the USACE are held in the Hastings City Library.
2721 A majority of the wells at Hastings are projected to be closed, leaving only one potable well and

2722 one wash rack (non-potable). GTS has recently begun a program of water monitoring developed
2723 and administered by the United States Geological Survey (USGS).

2724 NEARNG performs water quality testing on a quarterly basis on filtered drinking water as a part
2725 of a drinking water permit for any potable water. Currently, there is no threat to installation
2726 activities due to groundwater contamination.

2727 Management of water resources at GTS includes the following.

- 2728 • Limit the impact on water bodies and riparian buffers caused by training exercises.
- 2729 • Maintain a 50-meter-wide buffer around all waterways and creeks to protect and improve
2730 the quality of water entering these waterways and creeks.
- 2731 • Monitor and maintain potable water standards through quarterly testing.
- 2732 • Monitor potential threats to installation groundwater resources from off-site
2733 contamination sources and work with appropriate agencies in the event a threat becomes
2734 apparent.

2735 **7.6.4 GTS-SC**

2736 Water resources at GTS-SC are primarily related to precipitation and associated infiltration and
2737 runoff. Management of water resources at GTS-SC includes the following.

- 2738 • Limit the impact on water bodies caused by training exercises.
- 2739 • Maintain a 50-meter-wide buffer around all waterways and creeks to protect and improve
2740 the quality of water entering these waterways and creeks.
- 2741 • Monitor and maintain potable water standards through quarterly testing.

2742 **7.7 WETLAND PROTECTION**

2743 Wetland identification and delineation are based on the presence of three criteria: hydrophytic
2744 vegetation, hydric soils, and wetland hydrology. A summary of the wetlands present at each
2745 installation is summarized in Section 5.4.1.

2746 **7.7.1 CATS**

2747 Wetlands at CATS are located primarily in depression areas within the floodplain, on soils that
2748 are either ponded or saturated for prolonged periods during the growing season. Management of
2749 wetlands at CATS includes the following.

- 2750 • Protect and enhance wetland areas and stream channels on the installation.
- 2751 • Comply with all federal, state, and local laws and regulations pertaining to the federal
2752 jurisdictional wetland and other riparian areas on the installation.

2753 7.7.2 CATS-M

2754 Wetlands at CATS-M are located primarily in depression areas in agriculture/grassland fields or
2755 adjacent to waterways, on soils that are either ponded or saturated for prolonged periods during
2756 the growing season. Management of wetlands at CATS-M includes the following.

- 2757 • Protect and enhance wetland areas and stream channels on the installation.
- 2758 • Comply with all federal, state, and local laws and regulations pertaining to the federal
2759 jurisdictional wetland and other riparian areas on the installation.
- 2760 • Continue monitoring of the restored wetland areas to ensure that the stream banks
2761 continue to be stable and the wetlands continue to revegetate with desirable species.

2762 7.7.3 GTS

2763 Wetlands at GTS are located primarily in depression areas in agriculture/grassland fields or
2764 adjacent to waterways, on soils that are either ponded or saturated for prolonged periods during
2765 the growing season. Management of wetlands at GTS includes the following.

- 2766 • Protect and enhance wetland areas and stream channels on the installation.
- 2767 • Comply with all federal, state, and local laws and regulations pertaining to the federal
2768 jurisdictional wetland and other riparian areas on the installation.
- 2769 • Continued monitoring of the restored wetland areas to ensure that the banks continue to
2770 be stable and the wetlands continue to revegetate with desirable species.

2771 7.7.4 GTS-SC

2772 Wetlands at GTS-SC are located primarily in depression areas in agriculture/grassland fields, on
2773 soils that are either ponded or saturated for prolonged periods during the growing season.
2774 Management of wetlands at GTS-SC includes the following.

- 2775 • Protect and enhance wetland areas and stream channels on the installation.
- 2776 • Comply with all federal, state, and local laws and regulations pertaining to the federal
2777 jurisdictional wetland and other riparian areas on the installation.

2778 7.8 GROUNDS MAINTENANCE

2779 Any grounds management on federal lands must comply with the Guidance for Presidential
2780 Memorandum on Environmentally and Economically Beneficial Landscape Practices on Federal
2781 Landscaped Grounds (USEPA 1995). This guidance is intended to promote principles of
2782 "sustainable landscape design and management", which recognizes the interconnection of natural
2783 resources, human resources, site design, building design, energy management, water supply,
2784 waste prevention, and facility maintenance and operation. Management of the grounds includes
2785 the following.

- 2786 • When feasible, use regionally native plants for landscaping. Characteristics of
2787 sustainable landscapes include minimizing water use, reducing the need for pesticides
2788 and fertilizers, reducing maintenance costs, utilizing hardy plants, and increasing erosion
2789 control.
- 2790 • Use Integrated Pest Management strategies, as outlined in the NEARNG Integrated Pest
2791 Management Plan (IPMP), to reduce the need for chemicals in the control of pests.

2792 **7.9 FOREST AND GRASSLAND MANAGEMENT**

2793 **7.9.1 CATS**

2794 **7.9.1.1 Forest Management**

2795 CATS contains both natural and urban forest areas that support its military mission, provide
2796 ecologic benefits, and make the camp a more pleasant environment. The camp's natural forest
2797 areas are the only dismounted infantry training lands available to tenant units at CATS, as well
2798 as military units from the surrounding region. The Forestry Management Plan, summarized in
2799 Appendix, establishes goals and defines objectives for managing and improving the natural and
2800 urban forest areas within CATS. Section 7.2.1.3 also provides forest management practices.

2801 **7.9.1.2 Grassland Management**

2802 At CATS, the current management technique for areas representative of grasslands is haying and
2803 mowing. Grassland management practices are provided above in Section 7.2.1.2. Management
2804 of grassland areas at CATS should incorporate the implementation of BMPs and adaptive
2805 management strategies for weed and invasive species as outlined in the Invasive Species
2806 Management Plan (ISMP) (EA 2021). Musk thistle and common reed, noxious weed species, are
2807 found at CATS, and a combination of repeated mowing and herbicide application in the fall is
2808 recommended over multiple years to treat the smaller, isolated infestations. Chemical treatment
2809 of noxious and invasive weed species can be used to control infestations, but care should be
2810 taken to avoid impacts to aquatic life when surface water is in the proximity of application.
2811 Garlic mustard, an invasive species, covers nearly 65 acres at the site. With such a large
2812 infestation, herbicide treatment of glyphosate is preferred over mechanical treatment. Specific
2813 guidance for control and removal of invasive and noxious species at CATS should sought in the
2814 ISMP.

2815 Prescribed burns can be used as a tool to suppress and control woody invasives such as eastern
2816 red cedar, as well as woody encroachment into grassland areas at CATS. Specific guidance for
2817 fire management at the installation can be found in 7.10 Wildland Fire Management, as well as
2818 the NEARING Integrated Wildland Fire Management Plan (EA 2021b).

2819 **7.9.2 CATS-M**

2820 **7.9.2.1 Forest Management**

2821 Existing forest resources at CATS-M include natural woodlands along area drainages and
2822 adjacent to wetlands, volunteer trees and shrubs on rough ground and around former military

2823 structures, and the remnants of windbreaks or tree plantings which once sheltered farmsteads that
2824 existed prior to the development of the Nebraska Ordinance Plant. The tree and shrub masses
2825 break the expanse of CATS-M into distinct and defined open spaces. Tree lines trace the edges
2826 of former farm fields, as well as follow Johnson Creek and its various tributaries. Scattered tree
2827 masses occur along current and former roads, providing shade and improving the roadways'
2828 value for truck convoy driver training. Scattered trees near wetlands and on-stream terraces
2829 improve the diversity of habitat for wildlife. Collectively these forest resources support the
2830 military mission, provide ecological benefits, and make the installation a more pleasant
2831 environment. The Forestry Management Plan, summarized in Appendix E, establishes goals and
2832 defines objectives for managing and improving the natural and urban forest areas within CATS-
2833 M. Section 7.2.2.3 also provides forest management practices.

2834 **7.9.2.2 Grassland Management**

2835 At CATS-M, the current management technique for areas representative of grasslands is haying
2836 and mowing. Grassland management practices are provided above in Section 7.2.2.2
2837 Management of grassland areas at CATS-M should incorporate the implementation of BMPs and
2838 adaptive management strategies for weed and invasive species as outlined in the Invasive
2839 Species Management Plan (ISMP) (EA 2021a). Musk thistle and Canada thistle, noxious weed
2840 species, are found at CATS-M, and a combination of repeated mowing and herbicide application
2841 in the fall is recommended over multiple years to treat the infestations. Chemical treatment of
2842 noxious and invasive weed species can be used to control infestations, but care should be taken
2843 to avoid impacts to aquatic life when surface water is in the proximity of application. Care
2844 should also be taken at CATS-M to select herbicide based on land use to reduce damage to crops
2845 or desirable vegetation (EA 2021a). Specific guidance for control and removal of invasive and
2846 noxious species at CATS-M should sought in the ISMP.

2847 Prescribed burns can be used as a tool to maintain the native grass ecosystem, reduce fire danger,
2848 and increase woody areas by reducing fuel loadings. Specific guidance for fire management at
2849 the installation can be found in 7.10 Wildland Fire Management, as well as the NEARING
2850 Integrated Wildland Fire Management Plan (EA 2021b).

2851 **7.9.3 GTS**

2852 **7.9.3.1 Forest Management**

2853 Three types of forest resources occur at GTS. The most evident are the series of east to west
2854 windbreaks dating back to the time when the installation was part of the NAD. Within the
2855 cantonment at GTS, landscape plantings provide shade and enhance the area's aesthetics.
2856 Remnant trees of former farmsteads and naturally occurring trees provide scattered groupings
2857 within the installation's grasslands and along its riparian corridors. Collectively these forest
2858 resources support the military mission, provide ecological benefits, and make the installation a
2859 more pleasant environment. The Forestry Management Plan, summarized in Appendix E,
2860 establishes goals and defines objectives for managing and improving the natural and urban forest
2861 areas within GTS. Section 7.2.3.3 also provides forest management practices.

2862 7.9.3.2 Grassland Management

2863 At GTS, the current management technique for areas representative of grasslands is haying and
2864 mowing. Grassland management practices are provided above in Section 7.2.3.2. Management
2865 of grassland areas at GTS should incorporate the implementation of BMPs and adaptive
2866 management strategies for weed and invasive species as outlined in the Invasive Species
2867 Management Plan (ISMP) (EA 2021a). Musk thistle, a noxious weed species, is found at GTS,
2868 and a combination of repeated mowing and herbicide application in the fall is recommended over
2869 multiple years to treat the infestations. Sulfur cinquefoil is a priority invasive in Adams County
2870 and found at GTS. Chemical treatment of noxious and invasive weed species can be used to
2871 control infestations, but care should be taken to avoid impacts to aquatic life when surface water
2872 is in the proximity of application. Specific guidance for control and removal of invasive and
2873 noxious species at GTS should sought in the ISMP.

2874 Prescribed burns can be used as a tool at GTS to maintain the native grass ecosystem, reduce fire
2875 danger, and increase woody areas by reducing fuel loadings. Specific guidance for fire
2876 management at the installation can be found in 7.10 Wildland Fire Management, as well as the
2877 NEARING Integrated Wildland Fire Management Plan (EA 2021b).

2878 7.9.4 GTS-SC**2879 7.9.4.1 Forest Management**

2880 Except for a few trees growing adjacent to historic structures, there are no forested areas at GTS-
2881 SC.

2882 7.9.4.2 Grassland Management

2883 At GTS-SC, the current management technique for areas representative of grasslands is haying.
2884 Grassland management practices are provided above in Section 7.2.4.2. Management of
2885 grassland areas at GTS-SC should incorporate the implementation of BMPs and adaptive
2886 management strategies for weed and invasive species as outlined in the Invasive Species
2887 Management Plan (ISMP) (EA 2021a). Noxious weed species are found at GTS-SC, and a
2888 combination of repeated mowing and herbicide application in the fall is recommended over
2889 multiple years to treat the infestations. Chemical treatment of noxious and invasive weed species
2890 can be used to control infestations, but care should be taken to avoid impacts to aquatic life and
2891 burrowing owl populations on the installation. Specific guidance for control and removal of
2892 invasive and noxious species should sought in the ISMP.

2893 Prescribed burns can be used as a tool at GTS-SC to maintain the native grass ecosystem and
2894 manage leafy spurge and reduce fire danger that may result from training exercises. Specific
2895 guidance for fire management at the installation can be found in 7.10 Wildland Fire
2896 Management, as well as the NEARING Integrated Wildland Fire Management Plan (EA 2021b).

2897 7.10 WILDLAND FIRE MANAGEMENT

2898 An Integrated Wildland Fire Management Plan (IWFMP) was completed for the NEARNG
2899 in May of 2021. The objective of this plan was to reduce wildfire potential, effectively

2900 protect and enhance valuable natural resources, and implement ecosystem management goals
2901 for the NEARNG installations while having no net loss in training ability. Requirements
2902 included: incorporation of all applicable laws, regulations, and current policy drivers,
2903 discussion of current and desired interagency/mutual aid agreements for fire suppression at
2904 each site, and the creation of prescribed fire programs where applicable to enhance training
2905 opportunity and restore habitat. A summary for each installation is included below with
2906 detailed information on wildland fire management outlined in the NEARNG IWFMP (EA
2907 2021b).

2908

2909 **7.10.1 CATS**

2910 Wildland fire management is not a major issue at CATS; however, prescribed fire is an
2911 appropriate management tool at CATS to help reduce the risk of wildland fire, promote diverse
2912 native vegetation, and help reduce invasive species and woody plants. Controlled burns are
2913 implemented on the installation as needed. In April 2020, a controlled burn that spanned
2914 approximately 23 acres was carried out on the eastern portion of CATS.

2915

2916 CATS falls within the tallgrass prairie ecoregion, which is typically comprised of tallgrass prairie
2917 species in the uplands with deciduous forests in the lower areas. Fuel quantities can vary
2918 considerably, depending on the vegetation composition and recent fire history. Much of the area
2919 that historically was known for tallgrass prairie at CATS has been converted due to haying and
2920 mowing and the introduction of smooth brome (*Bromus inermis*) and Kentucky bluegrass (*Poa
2921 pratensis*). Deciduous forest types represent much of the forest cover at CATS with eastern red
2922 cedar forest types dominating three of the delineated stands - stands 8, 9, and 13. Eastern red
2923 cedar can burn with extreme flammability when temperatures, moisture, and weather conditions
2924 align, even if they are not the only tree species in the stand.

2925

2926 Based on the potential ignition sources and the hazards associated with the current fuel
2927 conditions at CATS, the risk of loss has an overall rating of low with the exception of areas with
2928 significant eastern red cedar such as stands referenced above, which have a rating of high.

2929

2930 The objective of fire management at CATS is to use prescribed burns to create a cottonwood
2931 savannah or an open forest condition that would allow relatively easy foot travel through the
2932 forest understory in the forested areas at the installation, and to control woody invasive species
2933 such as eastern red cedar. This cottonwood savannah can be achieved through prescribed fire and
2934 mechanical treatment, such as removal of fuel from the base of large overstory trees in the
2935 savannah stands, and prescribed burning of smaller eastern red cedar stands. It may be necessary
2936 to cut larger-diameter cedar trees before a prescribed burn. Leaving the largest diameter
2937 cottonwood trees for the overstory can increase resistance to surface fires.

2938

2939 Fuel reduction is accomplished through agricultural practices (haying), mowing, and thinning of
2940 forested areas. Historically, fire altered the vegetation in and around this area. Fires would have
2941 been started in the past by humans or lightning. In the event that a wildland fire begins, or
2942 prescribed burning is used as a management practice at CATS, control and management
2943 practices as outlined in the Camp Ashland Training Site Integrated Wildland Fire Management
2944 Plan, summarized in Appendix E, should be followed.

2945 **7.10.2 CATS-M**

2946 Wildland fire management is not a major issue at CATS-M; however, prescribed fire is an
2947 appropriate management tool at CATS-M to help reduce the risk of wildland fire, promote
2948 diverse native vegetation, and help reduce invasive species and woody plants. There are no
2949 fire records maintained for CATS-M, but historically fire altered the vegetation in and around
2950 this area. Fires would have been started in the past by humans or lightning. Controlled burns
2951 are implemented on the installation as needed.

2952
2953 CATS-M falls within the tallgrass prairie ecoregion, which is typically comprised of tallgrass
2954 prairie species in the uplands with deciduous forests in the lower areas. Much of the ground
2955 cover at CATS-M consists of non-forested (grass/forb and cropland) fuel types, such as smooth
2956 brome and alfalfa (*Medicago sativa*), which generally have a low risk for loss. Areas that are
2957 forested are typically deciduous stands with eastern red cedar forest types dominating two of the
2958 delineated stands – stands 4 and 10. Eastern red cedar can burn with extreme flammability when
2959 temperatures, moisture, and weather conditions align, even if they are not the only tree species in
2960 the stand.

2961
2962 Based on the potential ignition sources and the hazards associated with the current fuel
2963 conditions at CATS-M, the risk of loss has an overall rating of low with the exception of areas
2964 with significant eastern red cedar such as stands referenced above, which have a rating of high.

2965
2966 The objective of fire management at CATS-M is to use prescribed burns to help maintain a
2967 native grass ecosystem as agricultural areas and smooth brome habitats are converted to native
2968 grasses. To achieve this, prescribed burns should be used in combination with other management
2969 techniques, such as herbicide treatment. The best time to burn is during late spring when enough
2970 dry fuel is present to carry the fire and the smooth brome stand has developed to 4 to 10 inches
2971 tall. This generally damages cool-season grasses, such as smooth brome, while native grasses
2972 and forbs thrive as their cool-season competitors are weakened.

2973
2974 Fuel reduction is accomplished through agricultural practices (haying and mowing). In the event
2975 that a wildland fire begins or prescribed burning is used as a management practice at CATS-M,
2976 control and management practices as outlined in the Mead-Greenlief Training Site Integrated
2977 Wildland Fire Management Plan, summarized in Appendix E, should be followed.

2978 **7.10.3 GTS**

2979 Wildland fire management is not a major issue at GTS; however, prescribed fire is an appropriate
2980 management tool at GTS to help reduce the risk of wildland fire, promote diverse native
2981 vegetation, and help reduce invasive species and woody plants. There are no fire records
2982 maintained for GTS, but historically fire altered the vegetation in and around this area. Fires
2983 would have been started in the past by humans or lightning. Controlled burns are implemented
2984 on the installation as needed.

2985
2986 GTS falls within the mixed-grass prairie ecoregion, which is typically comprised of tallgrass
2987 prairie species in the moister areas and shortgrass prairie species in the drier areas. The majority
2988 of the native Mixed-Grass prairies have been converted to cropland and rangeland, except for

2989 areas of steep topography. Today, much of the ground cover at GTS consists of non-forested
2990 (grass/forb and cropland) fuel types, such as smooth brome and large areas of switchgrass
2991 (*Panicum virgatum*) and big bluestem (*Andropogon gerardii*), which generally have a low risk
2992 for loss. Eastern red cedar, which can burn with extreme flammability when conditions are right,
2993 dominates all five forest stands at GTS.

2994
2995 Based on the potential ignition sources and the hazards associated with the current fuel
2996 conditions at GTS, the risk of loss has an overall rating of low with the exception of the firing
2997 ranges which have a rating of moderate and areas with significant eastern red cedar such as
2998 shelterbelts, which have a rating of high.

2999
3000 The objective of fire management at GTS is to use prescribed burns to help maintain a native
3001 grass ecosystem as agricultural areas and smooth brome habitats are converted to native grasses.
3002 This can be achieved through prescribed burns in conjunction with other management
3003 techniques, such as herbicide treatment. Additional fuel reduction is accomplished primarily
3004 through agricultural practices (haying and mowing). In the event that a wildland fire begins or
3005 prescribed burning is used as a management practice at GTS, control and management practices
3006 as outlined in the Mead-Greenleaf Training Site Integrated Wildland Fire Management Plan,
3007 summarized in Appendix E, should be followed.

3008

3009 **7.10.4 GTS-SC**

3010 Wildland fire management is not a major issue at GTS-SC; however, prescribed fire is an
3011 appropriate management tool at GTS-SC to help reduce the risk of wildland fire, promote diverse
3012 native vegetation, and help reduce invasive species and woody plants. There are no fire records
3013 maintained for GTS-SC, but historically fire altered the vegetation in and around this area. Fires
3014 would have been started in the past by humans or lightning. Controlled burns are implemented
3015 on the installation as needed.

3016

3017 GTS-SC falls within the mixed-grass prairie ecoregion, which is typically comprised of tallgrass
3018 prairie species in the moister areas and shortgrass prairie species in the drier areas. Much of the
3019 area that historically was known for mixed-grass prairie at GTS-SC has been converted due to
3020 haying, mowing, and the using the area for rangeland. The species that dominate GTS-SC are
3021 switchgrass (*Panicum virgatum*), big bluestem (*Andropogon gerardii*), little bluestem
3022 (*Schizachyrium scoparium*), and Scribner's panicum (*Dicanthelium oligosanthes*). The noxious
3023 weed leafy spurge (*Euphorbia esula*) is also abundant throughout the installation. There are no
3024 forested areas at GTS-SC, and the non-forested areas generally have a low risk for loss.

3025

3026 Based on the potential ignition sources and the hazards associated with the current fuel
3027 conditions at GTS-SC, the risk of loss has an overall rating of low.

3028

3029 The objective of fire management at GTS-SC is to use prescribed burning to manage native
3030 grasslands throughout the installation and specifically aid in managing leafy spurge infestations.
3031 This can be achieved through prescribed burns, as well as other management techniques. Fire in
3032 conjunction with herbicides has proven effective in providing some control over leafy spurge,
3033 which fire alone cannot control. Additional fuel reduction is accomplished through agricultural
3034 practices (haying).

3035

3036 **7.11 AGRICULTURAL OUTLEASING**

3037 Agricultural leases on all NEARNG installations aim to manage leased areas in a manner that
3038 reduces fire danger, enhancing the appearance of open areas on the site and providing suitable
3039 training environment. The USACE administers the leases on a five-year basis. Tract management
3040 plans are drawn up by the NEARNG Environmental Branch. NEARNG has direct contact with
3041 lessees through periodic reviews and when reporting needs arise.

3042 **7.11.1 CATS**

3043 CATS currently leases 114 acres of land on the west side of the installation for hay. The goal of
3044 agricultural leases on CATS is to manage leased areas in a manner that enhances their quality,
3045 while reducing fire danger, enhancing the appearance of open areas on the installation, and
3046 providing suitable training environment. Management of the agriculture outlease at CATS
3047 includes the following.

- 3048 • Maximize quality and quantity of hay production through improved fertilization and pest
3049 (weed) management by the lessee.
- 3050 • Promote a native prairie grasses composition throughout hay lease area, reducing non-
3051 native and invasive grass frequency, for a better ecological environment.
- 3052 • Promote wildlife propagation and conservation, including preserving grassland nesting
3053 bird habitat in accordance with the Migratory Bird Treaty Act.
- 3054 • Manage in a way as to not hinder or interfere with Nebraska Army National Guard
3055 (NEARNG) training activities.

3056 **7.11.2 CATS-M**

3057 CATS-M currently leases 965 acres for hay production. Up to 70% of the land area at CATS-M
3058 has been designated 'Prime Farmland', thus assigning agricultural production as the most suitable
3059 land use. The goal of agricultural leases on CATS-M is to manage leased areas in a manner that
3060 enhances their quality as forage and their use by wildlife, while reducing fire danger, enhancing
3061 the appearance of open areas on the installation, and providing suitable training environment.
3062 Agricultural outleasing at CATS-M serves to provide financial resources to fund natural resource
3063 projects for NEARNG. Managing lands in this manner helps them support propagation and
3064 conservation of wildlife as well as help support the military mission. Management of agriculture
3065 outlease at CATS-M includes the following.

- 3066 • Maximize quality and quantity of hay production through improved fertilization and pest
3067 (weed) management by the lessee, using management and control methods outlined in the
3068 Tract Management Plan.
- 3069 • Complete no more than one haying after August 1st to protect grassland nesting birds in
3070 accordance with the Migratory Bird Treaty Act.

- 3071 • Convert old alfalfa stands to native prairie grasses to provide habitat and forage for native
3072 species and a better adapted, higher functioning ecosystem.
- 3073 • Optimize haying yield using management practices outlined in the Tract Management
3074 Plan.
- 3075 • Maintain a minimum of a 33-foot grass buffer strip along Johnson Creek where no
3076 leasing activities will take place.
- 3077 • Manage in a way as to not hinder or interfere with NEARNG training activities.

3078 **7.11.3 GTS**

3079 GTS currently leases 2,640 acres. Up to 94% of the land area at GTS has been designated
3080 ‘Prime Farmland’, thus assigning agricultural production as the most suitable land use. The goal
3081 of agricultural leases on GTS is to manage outleased haylands in a manner that enhances their
3082 quality as hay and their use by wildlife, while reducing fire danger, enhancing the appearance of
3083 open areas on the installation, and providing suitable training environment. Management of
3084 agriculture outlease at GTS includes the following.

- 3085 • Manage outleased haylands in a manner that enhances their quality as hay and their use
3086 by wildlife, while reducing fire danger, enhancing the appearance of open areas on the
3087 installation, and providing suitable training environment.
- 3088 • Complete no more than one haying after August 1st to protect grassland nesting birds in
3089 accordance with the Migratory Bird Treaty Act.
- 3090 • Maintain a minimum of a 33-foot buffer strip along Big Sandy Creek and its tributaries
3091 where no out-lease activities will take place.
- 3092 • Maximize quality and quantity of hay production through improved fertilization,
3093 promotion of native grasses and pest (weed) management as outlined in the Tract
3094 Management Plan.
- 3095 • Manage in a way as to not hinder or interfere with NEARNG training activities.

3096 **7.11.4 GTS-SC**

3097 GTS-SC traditionally leases 347 acres of land comprising the majority of the installation.
3098 However, the hay lease ended in 2019 due to high amounts of leafy spurge, and there is currently
3099 no plan to renew the lease. The goal of agricultural leases on GTS-SC is to manage leased areas
3100 in a manner that enhances their quality as forage and their use by wildlife, while reducing fire
3101 danger, enhancing the appearance of open areas on the installation, and providing suitable
3102 training environment. Management of agriculture outlease at GTS-SC includes the following.

- 3103 • Maximize quality and quantity of hay production through improved fertilization,
3104 promotion of native grasses and pest (weed) management by the lessee.

- 3105 • Manage in a way as to not hinder or interfere with NEARNG training activities.

3106 **7.12 INTEGRATED PEST MANAGEMENT (IPM) PROGRAM**

3107 Without appropriate control, pests could interfere with the military mission, damage property,
3108 increase maintenance costs and expose installation personnel to potential diseases. A major
3109 focus of the integrated pest management program is the use of mechanical and physical
3110 treatments, as opposed to chemical controls. The integrated pest management program is
3111 responsible for the safe control of pests for the installation. The program identifies total pest
3112 management requirements, includes the resources necessary for surveillance and control, and
3113 implements appropriate administrative, safety, and environmental requirements in support of the
3114 program. Pest Management personnel, who are trained and certified as required by DoD,
3115 federal, state, and local regulations for pesticide and herbicide application, use only USEPA and
3116 state-approved pesticides and herbicides. All pest control vehicles are equipped with state-of-the
3117 art personal protective equipment, and mixing and dispensing devices for use by pest
3118 management personnel.

3119

3120 In April 2019, an IPMP was completed for the NEARNG. This plan provides guidance for
3121 operating and maintaining an effective pest management program at NEARNG facilities. The
3122 plan focuses on the use of integrated pest management, which is the judicious use of both
3123 nonchemical and chemical control to suppress or prevent pests from exceeding acceptable
3124 thresholds. Integrated pest management strategies rely upon surveillance to establish the need
3125 for control and to monitor the effectiveness of management efforts. A State Pesticide Use List
3126 (SPUL) was appended to the 2019 IPMP in 2021.

3127

3128 **7.13 INVASIVE SPECIES MANAGEMENT PLAN (ISMP)**

3129 Invasive and noxious weeds, without appropriate control, can interfere with the military mission,
3130 damage property, increase maintenance costs, pose a health hazard to humans and livestock, and
3131 outcompete desirable native vegetation for resources. Invasive weeds are typically defined as
3132 introduced non-native species that can thrive in habitats and locations beyond their natural range
3133 of dispersal. Noxious weeds are typically defined as species that may be difficult to control; or
3134 may pose as a health hazard to humans, stock animals, or wildlife; or may be otherwise
3135 detrimental to an ecosystem. NEARNG is required by the State of Nebraska and the federal
3136 government to monitor and control the spread of noxious weeds and is committed to controlling
3137 invasive species to optimize forage production in identified lease areas, and to maintain optimal
3138 health of installation natural resources and the surrounding ecosystem.

3139 While vegetative invasive and noxious species pose the greatest threat to the health of
3140 installation natural resources and the ecosystem surrounding the installation, detection and
3141 management of faunal invasives is also critical in ensuring optimal ecosystem health. NEARNG
3142 performs regular flora and fauna planning level surveys at each installation to monitor the
3143 composition and occurrence of individual species. Planning level surveys for fauna have not
3144 identified invasive faunal species at these installations but these surveys remain an important tool
3145 for early detection of such species. NEARNG does not currently have a management plan for
3146 invasive faunal species.

3147 An Invasive Species Management Plan was completed for the NEARNG in May of 2021 that
 3148 was focused on invasive flora species. This plan documents the nature and extent of noxious and
 3149 invasive flora species at NEARNG installations and puts forth species-specific and installation-
 3150 specific management plans with recommendations to help control invasive species. The
 3151 management plans focus on best management practices (BMPs), adaptive management
 3152 strategies, monitoring methods, and different methods of weed management which, when used in
 3153 combination with each other, can maximize effective control and minimize negative
 3154 environmental impacts, all while cultivating and promoting desirable species habitat and
 3155 communities. The site-specific control recommendations for located and identified invasive
 3156 species include mechanical, biological, cultural, and chemical controls. Special care and
 3157 considerations for natural resources at each installation is required when implementing control
 3158 measures for noxious and invasive species, and these are detailed in the ISMP. Flora inventories
 3159 were conducted at all four bases in 2020 and 2021. Eleven total invasive and noxious species
 3160 were identified.

Invasive and Noxious Species Identified	
Canada thistle (<i>Cirsium arvense</i>)	Musk thistle (<i>Carduus nutans</i>)
Common reed (<i>Phragmites australis</i>)	Purple loosestrife (<i>Lythrum salicaria</i>)
Downy brome (<i>Bromus tectorum</i>)	Reed canary grass (<i>Phalaris arundinacea</i>)
Eastern redcedar (<i>Juniperus virginiana</i>)	Smooth brome (<i>Bromus inermis</i>)
Leafy spurge (<i>Euphorbia esula</i>)	Tree of heaven (<i>Ailanthus altissima</i>)
Yellow starthistle (<i>Centaurea solstitialis</i>)	

3161 Detailed invasive species descriptions and recommended control methods are outlined in the
 3162 NEARNG Invasive Species Management Plan.

3163 **7.13.1 CATS**

3164 An installation flora inventory was completed in fall 2020, and spring and summer 2021 (Olsson
 3165 2021d). A total of nine invasive and noxious species were identified during this inventory.
 3166 These species include purple loosestrife, musk thistle, Canada thistle, smooth brome, yellow
 3167 starthistle, eastern redcedar, downy brome, common reed, and tree of heaven.

3168 Musk thistle, Canada thistle, purple loosestrife, and common reed are all classified as noxious
 3169 weeds by NEDA.

3170

3171 When managing invasive species at CATS, special consideration should be given to surface and
 3172 groundwater resources at the site. The Platte River and its' floodplain run through the middle of
 3173 the site and approximately 27.33 acres of wetlands and 9.42 acres of open waters are present at
 3174 CATS.

3175

3176 Treatment at CATS should focus on controlling musk thistle, Canada thistle, purple loosestrife,
3177 and common reed which are designated noxious weeds. Since the infestations are relatively
3178 small and isolated, effective treatment can help prevent their spread to other parts of the
3179 installation. A combination of mowing or string trimming before flowering followed by
3180 herbicide application in the fall for both species is recommended.

3181
3182 Planning level surveys targeting fauna have not identified invasive species at CATS but remain
3183 an important tool for early detection of such species. One species of concern to NEARNG is the
3184 emerald ash borer (EAB), *Agrilus planipennis* Fairmaire, which is responsible for killing
3185 millions of ash trees across the country since its discovery in 2002 (Herms and McCullough
3186 2014). CATS has the most forested acreage of all four installations by far, including green ash
3187 trees, and EAB is one of the greatest threats to the installation's woody resources, as well as
3188 habitat for avian, mammal, and threatened and endangered species. Fauna planning level surveys
3189 (PLS) have yet to detect the presence of EAB, however, as future PLSs are performed,
3190 NEARNG plans to update the INRMP for the status of this species in the annual INRMP
3191 updates. It is recommended that NEARNG survey healthy ash trees during adult EAB
3192 emergence, which typically occurs mid-June to early July. EAB infestation can be positively
3193 identified by locating "D"-shaped holes in the bark of ash trees. Upper canopies of large ash
3194 trees are typically colonized first, making early detection in the lower trunk challenging (Herms
3195 and McCullough 2014). While some success has been had in eradication by systematic
3196 insecticides, options for controlling and eradicating an EAB infestation and saving ash trees is
3197 still very limited.

3198 **7.13.2 CATS-M**

3199 Ground surveys were performed at CATS-M on 17 and 18 June and 12 August 2020 and
3200 identified a total of three invasive species: musk thistle, Canada thistle, and reed canary grass.
3201 Musk thistle is the dominant invasive at CATS-M covering more than 4 percent of the site,
3202 including many small infestations (less than 0.25 acres) throughout the site. Large infestations
3203 were observed on the eastern edge of the site and in the northeast corner. Reed canary grass and
3204 Canada thistle were observed in smaller infestations. Reed canary grass is considered a nuisance
3205 species by NEARNG.

3206
3207 When managing invasive species at CATS-M, special consideration should be given to surface
3208 resources at the site. Johnson Creek runs directly through CATS-M and eventually drains to
3209 Johnson Creek Reservoir less than one mile southeast of the site. Approximately 15.83 acres of
3210 wetlands are present at CATS-M. Groundwater will likely not be impacted by herbicide
3211 application at this site.

3212
3213 Treatment at CATS-M should focus on controlling musk thistle and Canada thistle which are
3214 designated noxious weeds. Musk thistle control should target the large infestation located on the
3215 eastern edge of the site and in the northeast corner. A combination of repeated mowing before
3216 flowering followed by herbicide application in the fall is recommended. Herbicide should be
3217 selected based on land use to reduce damage to crops or desirable vegetation. Multiple herbicide
3218 applications in one season may be necessary to ensure coverage.

3219 Canada thistle populations at the site are small and efforts should be made to eliminate these
3220 populations before they spread. Since the populations are small, cultivation combined with
3221 herbicide application is recommended. Herbicide should be selected based on land use to reduce
3222 damage to crops or desirable vegetation. Many herbicides are effective on both musk thistle and
3223 Canada thistle.

3224 Planning level surveys targeting fauna have not identified invasive species at this installation but
3225 remain an important tool for early detection of such species. One species of concern to
3226 NEARNG is the emerald ash borer (EAB), *Agrius planipennis* Fairmaire, which is responsible
3227 for killing millions of ash trees across the country since its discovery in 2002 (Herms and
3228 McCullough 2014). Green ash trees are present at CATS-M, and EAB is one of the greatest
3229 threats to the installation’s woody resources, as well as habitat for avian, mammal, and
3230 threatened and endangered species. Fauna planning level surveys (PLS) have yet to detect the
3231 presence of EAB, however, as future PLSs are performed, NEARNG plans to update the INRMP
3232 for the status of this species in the annual INRMP updates. It is recommended that NEARNG
3233 survey healthy ash trees during adult EAB emergence, which typically occurs mid-June to early
3234 July. EAB infestation can be positively identified by locating “D”-shaped holes in the bark of ash
3235 trees. Upper canopies of large ash trees are typically colonized first, making early detection in
3236 the lower trunk challenging (Herms and McCullough 2014). While some success has been had in
3237 eradication by systematic insecticides, options for controlling and eradicating an EAB infestation
3238 and saving ash trees is still very limited.

3239 **7.13.3 GTS**

3240 An installation flora inventory was conducted in fall 2020 and spring and summer 2021 (Olsson
3241 2021e). During this inventory three invasive and noxious species were identified at GTS: musk
3242 thistle, smooth brome, and eastern redcedar. Musk thistle infestations were observed throughout
3243 GTS with the largest infestations located in the northwest and southeast portions of the site
3244 during a 2020 site visit. Smooth brome is not acting as an invasive on the site as it is used for
3245 haying, but special surveying should be conducted to ensure no new infestations occur.

3246 Surface resources that should be given special consideration when managing noxious and
3247 invasive species include approximately 21.43 acres of wetlands present on the site, along with
3248 consideration for the multiple drainages that originate within a quarter mile from the installation.

3249 Invasive species treatment at GTS should focus on controlling musk thistle since it is a noxious
3250 weed. A combination of repeated mowing before flowering followed by herbicide application in
3251 the fall is recommended. Herbicide should be selected based on land use to reduce damage to
3252 crops or desirable vegetation. Multiple herbicide applications in one season may be necessary to
3253 ensure coverage.

3254 Planning level surveys targeting fauna have not identified invasive species at GTS but remain an
3255 important tool for early detection of such species. One species of concern to NEARNG is the
3256 emerald ash borer (EAB), *Agrius planipennis* Fairmaire, which is responsible for killing
3257 millions of ash trees across the country since its discovery in 2002 (Herms and McCullough
3258 2014). Green ash trees are present at GTS, and EAB is one of the greatest threats to the
3259 installation’s woody resources, as well as habitat for avian, mammal, and threatened and
3260 endangered species. Fauna planning level surveys (PLS) have yet to detect the presence of EAB,
3261 however, as future PLSs are performed, NEARNG plans to update the INRMP for the status of

3262 this species in the annual INRMP updates. It is recommended that NEARNG survey healthy ash
3263 trees during adult EAB emergence, which typically occurs mid-June to early July. EAB
3264 infestation can be positively identified by locating “D”-shaped holes in the bark of ash trees.
3265 Upper canopies of large ash trees are typically colonized first, making early detection in the
3266 lower trunk challenging (Herms and McCullough 2014). While some success has been had in
3267 eradication by systematic insecticides, options for controlling and eradicating an EAB infestation
3268 and saving ash trees is still very limited.

3269 **7.13.4 GTS-SC**

3270 An installation flora inventory was conducted in fall 2020 and spring and summer 2021 (Olsson
3271 2021f). During this inventory, five noxious and invasive species were identified at GTS-SC:
3272 leafy spurge, eastern redcedar, smooth brome, downy brome, and common reed. Leafy spurge is
3273 the dominant invasive at GTS-SC covering 53 acres (more than 15 percent) of the site. Common
3274 reed and leafy spurge are classified as noxious weeds and should be controlled.

3275
3276 Specific surface conditions require special consideration when managing for invasive species at
3277 GTS-SC. The installation is home to 18 wetlands, totaling approximately 61.03 acres in area. It
3278 is also 200 yards north of Prairie Creek, the main stormwater catchment for the site.
3279 Groundwater at GTS-SC is also very close to the surface due to its position on bedrock of the
3280 Niobrara Formation, and this requires special consideration when applying herbicide at the site.
3281 Care should also be taken to avoid impacting burrowing owl’s nesting sites, which have been
3282 documented at the installation.

3283
3284 Leafy spurge will require the most time and resources to control due to the size and extent of the
3285 infestation. A combination of repeated mowing through the growing season followed by
3286 herbicide application in the fall is recommended. Any herbicide that contains picloram (Tordon
3287 22K, Tordon, and Grazon P+D) should not be used at GTS-SC due to the permeable soil and
3288 shallow groundwater.

3289
3290 Infestations of common reed are smaller, but treatment is recommended to prevent the spread to
3291 other areas of GTS-SC. This species can be treated by a combination of mowing before
3292 flowering, followed by herbicide application in the fall. When treating populations near surface
3293 water, herbicide labeled for aquatic use should be applied.

3294
3295 Planning level surveys targeting fauna have not identified invasive species at GTS but remain an
3296 important tool for early detection of such species.

3297

3298 **7.14 CULTURAL RESOURCES PROTECTION**

3299 The NEARNG currently has a statewide ICRMP (2017). The installation’s ICRMP identifies
3300 goals and objectives for cultural resource management. The overall goal of the program includes
3301 planning and integration of cultural resource management with installation plans, projects, and
3302 programs and in support of military missions.

3303 7.15 PUBLIC OUTREACH

3304 Environmental Awareness serves to educate the public and garner their support by effectively
3305 communicating the nature of the military mission at each installation and the level of natural
3306 resources management at the installation. Newspaper articles, public service announcements,
3307 and digital media posts can reach a diverse audience and they can be specifically designed to
3308 communicate with and educate one or more categories of receivers. Awards presented to
3309 installation personnel are a good topic for such articles/announcements. Newspaper and digital
3310 media picture features enhance understanding of the natural resources and are easily understood
3311 by most people. Specific examples of articles include natural communities on the installation
3312 (forests, wetlands, etc.); use of native species for revegetation; or protection of Neotropical birds.
3313 All contact with media outlets should be coordinated with the Public Affairs Office.

3314 Standardized talks or presentations about environmental or natural resource activities on the
3315 installation can be given at the request of community groups (e.g. Lion's or Rotary Clubs). A
3316 particular topic can be chosen to explain a specific management activity that needs public
3317 support or at least understanding. This also leads to an overall awareness by the public that the
3318 NEARNG is a responsible steward of the area's natural resources.

3319 Another avenue for building environmental awareness and community support is through
3320 cooperation with local school and civic groups. Local schools frequently invite interesting
3321 speakers to illustrate subjects that are currently being covered in classes. Local scout groups need
3322 help with projects, merit badges, and conservation talks.

3323 7.16 GEOGRAPHIC INFORMATION SYSTEM

3324 The NEARNG utilizes the GIS as a support and planning tool in the management of natural
3325 resources. All NEARNG GIS data is maintained in a server-driven environment. Networked
3326 data allows access and modification of the data from different locations, often hundreds of miles
3327 apart. To allow more uses and better interaction, online applications have been developed.

3328 The NEARNG will incorporate natural resource data specific for management of the installations
3329 as information becomes available through surveys and studies. Natural resource data files
3330 include but are not limited to:

- 3331
- 3332 • Threatened and endangered species;
- 3333 • Agriculture outleashes;
- 3334 • Burn units/burn plan;
- 3335 • Vegetation/land cover;
- 3336 • Vegetative communities;
- 3337 • Wetlands;
- 3338 • Fire breaks;
- 3339 • Elevation contours; and,

- 3340 • Cultural resources.

3341 **7.17 NOISE**

3342 One of the goals of the Department of the Army (DA) is to establish effectual programs designed
3343 to minimize the adverse impacts of noise from military training upon the quality of the human
3344 environment without impairing the NEARNG’s military mission. To avoid potential conflicts
3345 between military training operations and nearby civilian and agricultural land use, the NEARNG
3346 will take reasonable steps to protect the communities from training noise, including working with
3347 the local landowners to develop an understanding of military training needs, and conduct training
3348 operations to be compatible with the noise environment. In 2007 the NEARNG adapted a
3349 Statewide ONMP for operations at the installations.

3350 **7.18 CLIMATE CHANGE**

3351 DoDM 4715.03 stresses the importance of adopting an adaptive management approach to natural
3352 resources management to help ensure the resilience of the ecological systems at military
3353 installations. Adaptive management gives the NEARNG and, specifically, the Natural Resources
3354 Manager, the ability to react to challenges posed by climate change and to incorporate new
3355 management techniques while ensuring the future goals and long-term ecosystem vitality is
3356 achieved at the installations. Climate change has the potential to alter species phenology and
3357 distribution, fire regimes, and hydrology and also increase habitat fragmentation, pollution, and
3358 the abundance of invasive species.

3359 In Nebraska, it is estimated that the average temperature has increased approximately one degree
3360 Fahrenheit since 1985. It is predicted that the temperature will continue to rise and there will be
3361 an increase in extreme weather events across the state. Changing weather patterns expected to
3362 affect Nebraska include longer periods of drought, an increase in wildland fires, more intense
3363 rainstorm events leading to increased flooding, a decrease in the amount of snowpack in the
3364 Rocky Mountains resulting in the loss of the slow release, steady flows in snowmelt-fed rivers,
3365 to name a few (Bathke et al 2014).

3366 Natural resources managers currently face a rapidly, drastically, and unidirectionally changing
3367 climate which can lead to extreme persistent ecological changes that can be attributed largely to
3368 anthropogenic stressors. These changes can have consequences for the availability, quality, and
3369 type of ecosystem goods and services (Millar and Stephenson 2015). These changes, called
3370 ecological transformations, are characterized by lasting shifts in many components of the
3371 ecosystem which are not easily changed or reversed by natural resource management
3372 (Schuurman et al. 2020). Ecological transformations make managing for a “natural” or historical
3373 condition more and more challenging, and management decisions must be made to steward
3374 natural resources in an age of continuous change. The National Park Service proposes a
3375 framework for making such management decisions called “Resist – Accept – Direct Change”
3376 (RAD). This framework emphasizes natural resources management for the emergence of
3377 conditions for which there may not exist a local precedent (Schuurman et al. 2020). The manager
3378 has the option to resist change – that is to maintain or restore processes, either for reducing
3379 magnitude of climate change effects or to buy time for species to adapt, accept change –
3380 allowing ecosystem changes with little or no intervention, possibly due to lack of funding or

3381 resources, or direct change – adapting to ecological transformations by actively shaping
3382 ecosystem conditions toward a new, more resilient, self-sustaining state.

3383 Management of natural resources at NEARNG installations will likely consist of a combination
3384 of resisting, accepting, and directing ecological transformations as data, resources, and funding
3385 allows. Management decisions must be strategic and forward-thinking with unprecedented shifts
3386 in ecological structure and function, and goals and desired outcomes will likely need to be
3387 periodically revisited as conditions evolve. Where appropriate, historical conditions can be used
3388 as a benchmark, such as native tallgrass prairie conditions and drought tolerant species.
3389 However, more climate change-susceptible ecosystems, such as wetland or aquatic habitats, will
3390 have to be managed to direct change toward resilient, highly functioning systems. For example,
3391 riparian conditions may likely change due to lower snowpack and earlier melting. Directing
3392 change would entail actively managing for shift from wet meadow to grassland, and prescribed
3393 burns to control woody encroachment.

3394 The 2011 Nebraska Natural Legacy Project, State Wildlife Action Plan provides several “no
3395 regrets” adaptation strategies that will provide a net benefit to the natural resources at the
3396 installations regardless of the magnitude, rate, and nature of future climate change effects. These
3397 strategies are provided below (NGPC 2011):

- 3398 • Reduce the impacts of non-climate stressors, such as invasive species, pests, pathogens,
3399 pollution, and habitat loss, degradation, and fragmentation.
- 3400 • Restore and maintain ecological processes and ecosystem functions, such as disturbance
3401 and hydrologic regimes (e.g., fire, flooding, etc.), energy and nutrient flows, and species
3402 dispersal
- 3403 • Protect and maintain a network of conservation areas to increase the extent of terrestrial
3404 and aquatic habitats that are protected from non-climate threats and to protect habitat
3405 corridors to allow for species dispersal in response to climate change.
- 3406 • Restore and maintain habitat and landscape connectivity, this requires strategic planning
3407 and investment and meaningful collaboration among public and private parties.
- 3408 • Increase knowledge about climate change impacts and species and ecosystem responses
3409 by conducting vulnerability assessments, monitoring, experiments, and modeling.
- 3410 • Utilize an adaptive management approach in implementing adaptation strategies to learn
3411 from previous management activities and to respond quickly and creatively to the
3412 challenges posed by climate change.

3413 **7.18.1 CATS**

3414 Due to the location along the Platte River and the multiple types of habitat available at CATS,
3415 several climate change considerations and management actions will be necessary to ensure the
3416 vitality of the natural resources on the installation.

3417 Climate change will likely alter the flow regime of the Platte River. Increased severity of storms
3418 and flood events will lead to amplified erosion along the Platte River and Salt Creek. Less
3419 snowpack in the Rocky Mountains will lead to lower flows in the Platte River. Steady spring

3420 and summer flows in the Platte River are necessary to support a range of native species as well as
3421 several threatened and endangered species. Management actions include:

- 3422 • Monitor erosion in the banks of the Platte River and the chutes located east of the Platte
3423 River and repair when necessary.
- 3424 • Continue collaborating with location agencies and entities to monitor pallid sturgeon use
3425 in the Platte River.
- 3426 • Continue to monitor nesting birds, specifically during and after flood events.
- 3427 • Monitor riparian and wetland areas for shifts in hydrology or vegetative structure,
3428 remove encroaching woody species, and/ or remove damaged wetland plants.

3429 Increased frequency and magnitude of drought periods and increased temperature at CATS will
3430 result in dryer soils which will affect the flora and fauna species composition, increase the
3431 likelihood for wildland fires, alter the migration pattern of several fauna species, and give
3432 invasive species, especially woody vegetation, a competitive advantage over native species.
3433 Management actions include:

- 3434 • When possible, incorporate native drought tolerant flora species into the landscape.
- 3435 • Continue to reduce fuel for fires when possible.
- 3436 • Continue to monitor fauna species, specifically, those that migrate. Record and track
3437 shifts in migration.
- 3438 • When possible, coordinate land management with neighbors to reduce habitat
3439 fragmentation.
- 3440 • Continue to manage invasive species.
- 3441 • Conduct seeding of resilient grassland species that will thrive in projected conditions.

3442 **7.18.2 CATS-M**

3443 Due to the multiple types of habitats available at CATS-M and the location of Johnson Creek,
3444 several climate change considerations and management actions will be necessary to ensure the
3445 vitality of the natural resources on the installation.

3446 Climate change will likely alter the flow regime of the Johnson Creek. Increased severity of
3447 storms and flood events will lead to amplified erosion along Johnson Creek. Management
3448 actions include:

- 3449 • Monitor erosion in the banks of the Johnson Creek and repair when necessary.

3450 Increased frequency and magnitude of drought periods and increased temperature at CATS-M
3451 will result in dryer soils which will affect the flora and fauna species composition, increase the
3452 likelihood for wildland fires, alter the migration pattern of several fauna species, and give
3453 invasive species, especially woody vegetation, a competitive advantage over native species.
3454 Management actions include:

- 3455 • When possible, incorporate native drought tolerant flora species into the landscape.
- 3456 • Conduct seeding of resilient grassland species that will thrive in projected conditions.

- 3457 • Continue to reduce fuel for fires when possible.
- 3458 • Continue to monitor fauna species, specifically, those that migrate.
- 3459 • Continue to manage invasive species.

3460 **7.18.3 GTS**

3461 Due to the multiple types of habitats that are available at GTS and the location of Big Sandy
3462 Creek, several climate change considerations and management actions will be necessary to
3463 ensure the vitality of the natural resources on the installation.

3464 Climate change will likely alter the flow regime of the Big Sandy Creek. Increased severity of
3465 storms and flood events will lead to amplified erosion along Big Sandy Creek. Management
3466 actions include:

- 3467 • Monitor erosion in the banks of the Big Sandy Creek and repair when necessary.

3468 Increased frequency and magnitude of drought periods and increased temperature at GTS will
3469 result in dryer soils which will affect the flora and fauna species composition, increase the
3470 likelihood for wildland fires, alter the migration pattern of several fauna species, and give
3471 invasive species, especially woody vegetation, a competitive advantage over native species.
3472 Management actions include:

- 3473 • When possible, incorporate native drought tolerant flora species into the landscape.
- 3474 • Continue to reduce fuel for fires when possible.
- 3475 • Continue to monitor fauna species, specifically, those that migrate.
- 3476 • Continue to manage invasive species.

3477 **7.18.4 GTS-SC**

3478 Increased frequency and magnitude of drought periods and increased temperature at GTS-SC
3479 will result in dryer soils which will affect the flora and fauna species composition, increase the
3480 likelihood for wildland fires, alter the migration pattern of several fauna species, and give
3481 invasive species, especially woody vegetation, a competitive advantage over native species.
3482 Management actions include:

- 3483 • When possible, incorporate native drought tolerant flora species into the landscape.
- 3484 • Continue to reduce fuel for fires when possible.
- 3485 • Continue to monitor fauna species, specifically, those that migrate.
- 3486 • Continue to manage invasive species.

3487

8. MANAGEMENT GOALS AND OBJECTIVES

3488 Specific management objectives and strategies have been identified in a number of subject areas
3489 that affect the natural resources present on and immediately adjacent to the four NEARNG
3490 installations. This chapter lists the goals and objectives for future natural resources management
3491 on each of the installations. The goals are the primary focal point for implementation of the
3492 INRMP. A goal should reflect the values of the installation by expressing a vision of the desired
3493 condition for the installation's natural resources in the foreseeable future. Each goal is supported
3494 by one or more objectives. An objective indicates a management initiative or strategy that will
3495 be used to achieve the stated goal. Projects or tasks are the individual component actions
3496 required to achieve an objective. Project statements describe the specific methods and
3497 procedures that will be used to achieve the objective supported.

3498 Management objectives established in this INRMP were initially developed during a thorough
3499 evaluation of the natural resources present at each installation. In accordance with AR200-1 and
3500 the principles of adaptive ecosystem management, subject areas were identified and management
3501 alternatives developed by an interdisciplinary team of ecologists, biologists, geologists, planners,
3502 and environmental scientists. The revision of this INRMP involved a complete review of the
3503 original subject areas and management alternatives accomplished during time since the last
3504 INRMP revision. This revised section presents the preferred management alternatives based on
3505 the professional opinions of the NEARNG Natural Resources Manager, USFWS, and the NGPC.
3506 Priorities communicated through the NEARNG upper command and installation staff as they
3507 relate to the overall military mission were also taken into consideration. Through these
3508 evaluations, the original natural resources planning and management goals have been reevaluated
3509 to ensure they represent the most current theories on adaptive ecosystem-based planning.
3510 Selection of these management goals has been tempered with the fact that the operational
3511 mission at each installation takes primacy over natural resources management. However,
3512 through the multiple-use adaptive paradigms used, sound ecological management on the
3513 installation should supplement the operational effectiveness and safety of the military missions.
3514 Ecosystem management provides a means for the Army to conserve biodiversity and to provide
3515 high-quality military readiness. The INRMP is a mechanism through which the NEARNG can
3516 maintain sustainable land use through ecosystem management.

3517 The specific "management issues" identified in the previous INRMPs have been reviewed and
3518 updated in this revision. These management issues related to a number of subject areas that
3519 affect the natural resources present on and immediately adjacent to each installation. The
3520 purpose of this section is to identify actions and objectives for each installation to obtain
3521 workable and useful solutions for each management issue identified. This chapter is divided into
3522 15 sections, one for each of the natural resource subject areas. For simplicity and clarity within
3523 this INRMP, each natural resource subject area is assigned an individual "issue number." Each
3524 subject area has been abbreviated, as shown in Table 8-1. For example, the first management
3525 objective in Section 8.1, Natural Resources Program Management, is identified as NRP-1. In
3526 addition, a series of projects/tasks are presented following the goal and objective for each subject
3527 area. The projects/tasks are consecutively numbered for each management objective. A
3528 summary of the management objectives is provided in Chapter 10, Annual Project
3529 Implementation Tables.

3530 Some of the projects described in this section will be accomplished through interactive
 3531 partnerships with federal, state, and local organizations. NEARNG natural resources
 3532 management staff will initiate partnerships based on the benefits to the regional ecosystem and
 3533 the local environment. Where appropriate, goals, objectives, and projects are listed for each
 3534 installation. Required projects, which are part of the continued management of each installation,
 3535 will be internally funded through the ARNG.

3536 **Table 8-1. Integrated Natural Resources Management Plan Subject Area Abbreviations**

Section	INRMP Subject Area	Abbreviation
8.1	Natural Resources Program Management	NRP
8.2	Fish and Wildlife Management	FWM
8.3	Outdoor Recreation and Public Access to Natural Resources	OR
8.4	Conservation Law Enforcement	CLE
8.5	Threatened and Endangered Species and Habitats	TE
8.6	Water Resources Protection	WRP
8.7	Wetland Protection	WP
8.8	Grounds Maintenance	GM
8.9	Forest and Grassland Management	FGM
8.10	Wildland Fire Management	WFM
8.11	Agricultural Outleasing	AG
8.12	Integrated Pest Management Program	IPM
8.13	Public Outreach	PO
8.14	Geographic Information System	GIS
8.15	Climate Change	CC

3537

3538 **8.1 NATURAL RESOURCES PROGRAM MANAGEMENT**

3539 Operation and management of each installation is conducted by installation personnel,
 3540 departments, and stakeholders. Management teams provide support within their areas of
 3541 expertise to ensure that operation of the installations is implemented successfully. It is necessary
 3542 that management approaches are consistent between units and with the natural resources
 3543 management goals and objectives developed in the INRMP. Coordination with installation
 3544 operators and consistency of natural resources management goals and objectives developed in
 3545 the INRMP with other installation operational plans and documents will ensure that natural
 3546 resources management can be implemented successfully in a manner consistent with the
 3547 missions of the installations.

3548 A crucial function of this INRMP is to utilize an ecosystems approach for the management of
 3549 resources found at each installation. An ecosystems approach focuses on using an ecosystems
 3550 model, in which all appropriate factors are accounted for by their function within the model.
 3551 Natural resources management is emphasized in this INRMP because it is recognized that the
 3552 mission of the NEARNG is inextricably linked to local, regional, and global ecological integrity.
 3553 Protecting the ecological integrity of the installation aids in improving the natural resources of
 3554 the area, including biodiversity and ecosystem health. Such practices also assure that projects
 3555 are completed with the foundations of sustainable use in mind. Another benefit of conserving
 3556 the ecological integrity of NEARNG sites is that it can reduce management costs for natural
 3557 resources over time. Native natural communities are best suited to localized areas and are crucial
 3558 to maintaining a functional and adaptable ecosystem, which decreases management needs.

3559 Although the ecosystem at each installation have already largely been altered by human activity,
3560 it is a priority to manage the remaining natural areas and resources under the principles of
3561 ecosystem management. While ecosystem management principles largely consider the complex
3562 interaction of natural factors, ecosystem-based management also must consider human needs and
3563 uses of an area when establishing suitable ecological management actions.

3564 The natural resource management topics of concern and associated goals and objectives for each
3565 installation are listed below. These goals focus on conserving and enhancing biodiversity by
3566 managing the ecosystem rather than focusing on a single biotic or abiotic component of the
3567 ecosystem. Ecosystem-focused management encompasses both the function and the structure of
3568 the ecosystem and the processes that link them.

3569 The following goals apply to projects listed for each installation in Table 10-2.

3570 **NRP GOAL 1: COMMUNICATION OF ECOSYSTEM MANAGEMENT PHILOSOPHY**
3571 **TO CATS PERSONNEL AND VISITING UNITS**

3572

- 3573 • NRP OBJECTIVE 1.1: Promote discussion with installation personnel and pertinent
3574 stakeholders about incorporating ecosystem-management philosophy into command
3575 decisions and natural resources planning on an annual basis. This should include training
3576 and education of installation personnel and visitors in applying an ecosystem-
3577 management approach to natural resources management decisions and actions.

3578 **NRP GOAL 2: UPDATE THE INRMP WHEN ENVIRONMENTAL OR MISSION**
3579 **CONDITIONS CHANGE AS REQUIRED BY THE SIKES ACT (16 USC 670A) AND**
3580 **DODI 4715.03**

3581

- 3582 • NRP OBJECTIVE 2.1: Coordinate with installation organizations to ensure there is an
3583 understanding of management goals and actions developed in the INRMP and to ensure
3584 that management actions developed in the INRMP are consistent with current
3585 management instructions and plans.
- 3586 • NRP OBJECTIVE 2.2: Conduct external stakeholder annual review and update the
3587 INRMP as needed based on pertinent review findings. The INRMP needs to be reviewed
3588 internally on an annual basis to assess the suggested management practices in terms of
3589 their appropriateness for current conditions at the installation. Recurring annual review
3590 with minor update and tripartite coordination is generally performed in-house or others,
3591 but may include incidental costs associated with physical update of INRMP
3592 documentation. The NEARNG will coordinate with the USFWS and NGPC to review
3593 and assess conservation goals and objectives and to determine if updates to the INRMP
3594 need to be made. In addition, the INRMP should be updated whenever there is a
3595 modification to the installation's mission, or when there is a substantial change to the
3596 installation's resources.
- 3597 • NRP OBJECTIVE 2.3: During annual reviews, determine if an update or revision of the
3598 INRMP is necessary based on changes in environmental conditions or the mission, as

3599 required by the Sikes Act (16 USC 670a) and DoDI 4715.03. The Sikes Act requires
3600 INRMPs to be reviewed for operation and effect no less than once every 5 years.

3601 **8.2 FISH AND WILDLIFE MANAGEMENT**

3602 Wildlife management is defined as manipulation of the environment and wildlife populations to
3603 produce desired objectives. Management can be performed in a manner that enhances
3604 biodiversity through the reestablishment of native habitats. Conversely, habitat management
3605 could be required to decrease the abundance of certain wildlife species to reduce animal damage.
3606 Traditionally, wildlife management was confined to large tracts of naturally vegetated land.
3607 Observations and discussions with installation and federal and state agency personnel identified a
3608 number of important wildlife species on each installation. The variety of habitats present on the
3609 installations (e.g., wetland complexes, upland forests, grasslands) contributes to the diversity of
3610 species found on each installation.

3611 Wildlife population and habitat management on each installation will attempt to deter animals
3612 from foraging or roosting near or adjacent to areas where they would be in opposition to
3613 installation missions and actions, or where they present a risk to safety or practices.
3614 Management actions include attracting wildlife away from these areas to more suitable locations
3615 and protecting and conserving threatened and endangered species through habitat conservation at
3616 selected locations at the installations. Additionally, non-habitat wildlife management
3617 approaches, such as incorporating food plots, hunting/trapping, and fish-stocking, are also
3618 implemented at the installations. These approaches have been chosen due to the relative
3619 abundance and variety of wildlife species present on each installation, and the low likelihood of
3620 excluding all wildlife species from the installation that pose a significant threat to the safety of
3621 the mission.

3622 The primary goal of fish and wildlife management at each installation is to maintain and control
3623 wildlife populations to provide quality non-consumptive wildlife associated recreation that is
3624 compatible with the military missions of the installation.

3625 The following goals apply to projects listed for each installation in Table 10-2.

3626 **8.2.1 CATS**

3627 **FWM GOAL 1: MANAGE HABITAT FOR ALL NATIVE SPECIES AT CATS**

3628 • FWM OBJECTIVE 1.1: Identify pollinator habitat at CATS. Pollinators have been in
3629 severe decline in recent years. The declining trend results from habitat loss and
3630 fragmentation, pesticide exposure, disease, parasites, and effects of introduced species.
3631 CATS is an ecologically important area and is uniquely positioned to contribute to
3632 pollinator conservation by enhancing habitat for monarch butterflies and other pollinators
3633 on the installation. Monitoring will be focused primarily in the grassland and wooded
3634 habitat areas encompassing approximately 650 acres.

3635 • FWM OBJECTIVE 1.2: Identify bird populations on the installation and any potential
3636 threats in order to minimize future potential impacts to training. Monitoring will be
3637 focused primarily in the grassland, wooded, and aquatic habitat areas encompassing

3638 approximately 1,000 acres. The Platte River is an important habitat to include in
3639 monitoring efforts as the sandbars are key areas for nesting and foraging of many species.

3640 • FWM OBJECTIVE 1.3: Maintain fisheries and wildlife resources by protecting and
3641 enhancing aquatic habitat.

3642 • FWM OBJECTIVE 1.4: Incorporate habitat management measures that benefit both
3643 game and nongame species.

3644 • FWM OBJECTIVE 1.5: Identify and avoid disturbing migratory bird nesting sites.
3645 Nesting sites should be left undisturbed until offspring have been fledged, permits are
3646 obtained, and/or consultation has been completed.

3647 **8.2.2 CATS-M**

3648 **FWM GOAL 2: MANAGE HABITAT FOR ALL NATIVE SPECIES AT CATS-M**

3649 • FWM OBJECTIVE 2.1: Identify pollinator habitat at CATS-M. Pollinators have been in
3650 severe decline in recent years. The declining trend results from habitat loss and
3651 fragmentation, pesticide exposure, disease, parasites, and effects of introduced species.
3652 CATS-M is an ecologically important area and is uniquely positioned to contribute to
3653 pollinator conservation by enhancing habitat for monarch butterflies and other pollinators
3654 on the installation. Monitoring will be focused primarily in the grassland and wooded
3655 habitat areas encompassing approximately 1,150 acres.

3656 • FWM OBJECTIVE 2.2: Identify bird populations on the installation and any potential
3657 threats in order to minimize future potential impacts to training. Monitoring will be
3658 focused primarily in the grassland and wooded habitat areas encompassing approximately
3659 1,150 acres.

3660 • FWM OBJECTIVE 2.3: Incorporate habitat management measures that benefit both
3661 game and nongame species.

3662 • FWM OBJECTIVE 2.4: Identify and avoid disturbing migratory bird nesting sites.
3663 Nesting sites should be left undisturbed until offspring have been fledged, permits are
3664 obtained, and/or consultation has been completed.
3665

3666 **8.2.3 GTS**

3667 **FWM GOAL 3: MANAGE HABITAT FOR ALL NATIVE SPECIES AT GTS**

3668 • FWM OBJECTIVE 3.1: Identify pollinator habitat at GTS. Pollinators have been in
3669 severe decline in recent years. The declining trend results from habitat loss and
3670 fragmentation, pesticide exposure, disease, parasites, and effects of introduced species.
3671 GTS is an ecologically important area and is uniquely positioned to contribute to
3672 pollinator conservation by enhancing habitat for monarch butterflies and other pollinators

- 3673 on the installation. Monitoring will be focused primarily in the grassland and wooded
3674 habitat areas encompassing approximately 3,000 acres.
- 3675 • FWM OBJECTIVE 3.2: Identify bird populations on the installation and any potential
3676 threats in order to minimize future potential impacts to training. Monitoring will be
3677 focused primarily in the grassland and wooded habitat areas encompassing approximately
3678 3,000 acres.
- 3679 • FWM OBJECTIVE 3.3: Incorporate Habitat Management Measures that Benefit both
3680 Game and Nongame species.
- 3681 • FWM OBJECTIVE 3.4: Identify and avoid disturbing migratory bird nesting sites.
3682 Nesting sites should be left undisturbed until offspring have been fledged, permits are
3683 obtained, and/or consultation has been completed.

3684 **8.2.4 GTS-SC**

3685 **FWM GOAL 4: MANAGE HABITAT FOR ALL NATIVE SPECIES AT GTS-SC**

- 3686 • FWM OBJECTIVE 4.1: Identify pollinator habitat at GTS-SC. Pollinators have been in
3687 severe decline in recent years. The declining trend results from habitat loss and
3688 fragmentation, pesticide exposure, disease, parasites, and effects of introduced species.
3689 GTS-SC is an ecologically important area and is uniquely positioned to contribute to
3690 pollinator conservation by enhancing habitat for monarch butterflies and other pollinators
3691 on the installation. Monitoring will be focused primarily in the grassland and wooded
3692 habitat areas encompassing approximately 370 acres.
- 3693 • FWM OBJECTIVE 4.2: Identify bird populations on the installation and any potential
3694 threats in order to minimize future potential impacts to training. Monitoring will be
3695 focused primarily in the grassland and wooded habitat areas encompassing approximately
3696 370 acres.
- 3697 • FWM OBJECTIVE 4.3: Incorporate habitat management measures that benefit both
3698 game and nongame species.
- 3699 • FWM OBJECTIVE 4.4: Identify and avoid disturbing migratory bird nesting sites.
3700 Nesting sites should be left undisturbed until offspring have been fledged, permits are
3701 obtained, and/or consultation has been completed.

3702 **8.3 OUTDOOR RECREATION AND PUBLIC ACCESS TO NATURAL** 3703 **RESOURCES**

3704 There are outdoor recreation opportunities at several of the installations, however they can be
3705 limited due to the dangers associated with each installation's mission. The level of enjoyment
3706 that is derived from these activities is directly related to the quality of the natural resources
3707 present. Maintaining a quality outdoor recreation program is dependent on proper management
3708 of natural resources and efficient program administration and oversight.

3709 People and social uses/needs are an integral part of ecosystem management. The outdoor
3710 recreation program is based on providing quality experiences while sustaining ecosystem
3711 integrity. Activities that have a direct effect on species populations will be monitored to
3712 determine effects, and adaptive management (e.g., water bars on trails) incorporated to mitigate
3713 negative impacts. Special consideration is given to protecting sensitive areas from negative
3714 impacts due to outdoor recreation or ecosystem management activities. Based on these
3715 considerations, goals and objectives have been identified to manage outdoor recreation resources
3716 and activities on each installation.

3717 The following goals apply to projects listed for each installation in Table 10-2.

3718 **8.3.1 CATS**

3719 **OR GOAL 1: PROVIDE QUALITY OUTDOOR RECREATION EXPERIENCES**
3720 **WHILE SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT**
3721 **OUTDOOR RECREATION ACTIVITIES ARE NOT IN CONFLICT**
3722 **WITH MISSION PRIORITIES AT CATS**

3723 • OR OBJECTIVE 1.1: Continue availability of recreational fishing, game hunting,
3724 mushroom hunting, and wildlife watching opportunities.

3725 • OR OBJECTIVE 1.2: Continue educational opportunities.

3726 **8.3.2 CATS-M**

3727 **OR GOAL 2: PROVIDE QUALITY OUTDOOR RECREATION EXPERIENCES**
3728 **WHILE SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT**
3729 **OUTDOOR RECREATION ACTIVITIES ARE NOT IN CONFLICT**
3730 **WITH MISSION PRIORITIES CATS-M**

3731 • OR OBJECTIVE 2.1: Establish recreational opportunities where feasible.

3732 **8.3.3 GTS-SC**

3733 **OR GOAL 4: PROVIDE QUALITY OUTDOOR RECREATION EXPERIENCES**
3734 **WHILE SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT**
3735 **OUTDOOR RECREATION ACTIVITIES ARE NOT IN CONFLICT**
3736 **WITH MISSION PRIORITIES GTS-SC**

3737 • OR OBJECTIVE 4.1: Establish recreational opportunities where feasible.

3738 **8.3.4 GTS**

3739 **OR GOAL 3: PROVIDE QUALITY OUTDOOR RECREATION EXPERIENCES**
3740 **WHILE SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT**
3741 **OUTDOOR RECREATION ACTIVITIES ARE NOT IN CONFLICT**
3742 **WITH MISSION PRIORITIES GTS**

- 3743 • OR OBJECTIVE 3.1: Establish recreational opportunities where feasible.

3744 **8.4 CONSERVATION LAW ENFORCEMENT**

3745 DoDI 5525.17, Conservation Law Enforcement Program, ensures that installations remain in
3746 compliance with appropriate environmental, natural, and cultural resource laws and regulations.
3747 Conservation law enforcement also includes regulating hunting and fishing programs on the
3748 installation. In Nebraska, the NGPC is responsible for enforcing fishing and hunting regulations.
3749 The NEARNG works with the NGPC and the local sheriff's office to enforce conservation laws.
3750 DoDI 5525.17 states that with an INRMP, the Conservation Law Enforcement section will
3751 provide specific goals and objectives to ensure compliance with laws and regulations to support
3752 the overarching goals of the INRMP (DoDI 5525.17 2(b)). There are a number of federal
3753 statutes and directives addressing specific requirements pertaining to natural resources. A
3754 comprehensive list of these regulations can be found in Appendix D.

3755 The following goals apply to projects listed for each installation in Table 10-2.

3756 **8.4.1 CATS**

3757 **CLE GOAL 1: ENSURE THAT THE ENFORCEMENT OF NATURAL RESOURCE**
3758 **LAWS AND REGULATIONS IS IMPLEMENTED**

- 3759 • CLE OBJECTIVE 1.1: Continue coordination to ensure that game species are properly
3760 managed at CATS.
- 3761 • CLE OBJECTIVE 1.2: Continue to coordinate the enforcement of natural resource
3762 regulations.

3763 **8.4.2 CATS-M**

3764 **CLE GOAL 2: ENSURE THAT THE ENFORCEMENT OF NATURAL RESOURCE**
3765 **LAWS AND REGULATIONS IS IMPLEMENTED**

- 3766 • CLE OBJECTIVE 2.1: Continue to coordinate the enforcement of natural resource
3767 regulations.

3768 **8.4.3 GTS**

3769 **CLE GOAL 3: ENSURE THAT THE ENFORCEMENT OF NATURAL RESOURCE**
3770 **LAWS AND REGULATIONS IS IMPLEMENTED**

- 3771 • CLE OBJECTIVE 3.1: Continue to coordinate the enforcement of natural resource
3772 regulations.

3773 **8.4.4 GTS-SC**

3774 **CLE GOAL 4: ENSURE THAT THE ENFORCEMENT OF NATURAL RESOURCE**
3775 **LAWS AND REGULATIONS IS IMPLEMENTED**

- 3776 • CLE OBJECTIVE 4.1: Continue to coordinate the enforcement of natural resource
3777 regulations.

3778 **8.5 MANAGEMENT OF THREATENED AND ENDANGERED SPECIES AND**
3779 **HABITATS**

3780 The occurrence of threatened and endangered species is important to the overall management of
3781 natural resources at each installation. The adaptive ecosystem management used does not focus
3782 on the management of individual species of wildlife; it instead provides comprehensive
3783 management actions to all species by enhancing ecosystem structure and function on which all
3784 species rely. Off-installation management by adjacent landowners (e.g., private landowners)
3785 needs to be considered in the application of the management actions identified in this INRMP.

3786 The goals for this section are to manage each installation on a regional ecosystem-based
3787 approach that manages sensitive species and their associated ecosystems while protecting the
3788 operational functionality of the missions of the installation. Also, the NEARNG Natural
3789 Resources Manager will work to promote ecosystem-based management in the local region.
3790 Sensitive species will be managed by implementing specific management actions that enhance
3791 habitat for these species and by initiating specific actions that address immediate needs of
3792 threatened and endangered and other sensitive species on the installation. In addition, adherence
3793 to the goals set for threatened and endangered species management will ensure that the
3794 installation remains in compliance with the ESA and applicable state regulations.

3795 The following goals apply to projects listed for each installation in Table 10-2.

3796 **8.5.1 CATS**

3797 **TE GOAL 1: PROTECT LISTED THREATENED AND ENDANGERED SPECIES AND**
3798 **THEIR HABITAT AT CATS**

- 3799 • TE OBJECTIVE 1.1: Monitor threatened and endangered species found within CATS
3800 and communicate locations and occurrences to NEARNG personnel.

- 3801 • TE OBJECTIVE 1.2: Conserve known threatened and endangered species and habitat
3802 found within CATS. Approximately 300 acres of wooded habitat are monitored closely
3803 for NLEB activity. There are also seasonal clearing restrictions for protection of roost
3804 trees. Special emphasis is also given to protection of sandbar habitat within the Platte
3805 River portion of CATS for piping plover and least tern nesting.

- 3806 • TE OBJECTIVE 1.3: Reduce/mitigate potential impacts from installation mission
3807 activities to threatened and endangered species.

3808 **8.5.2 CATS-M**

3809 **TE GOAL 2: PROTECT LISTED SPECIES AND THEIR HABITATS AT CATS-M**

- 3810 • TE OBJECTIVE 2.1: Monitor threatened and endangered species found within CATS-
3811 M, and communicate locations and occurrences to NEARNG personnel.

3812 • TE OBJECTIVE 2.2: Conserve known threatened and endangered species and habitat
3813 found within CATS-M.

3814 • TE OBJECTIVE 2.3: Reduce/mitigate potential impacts from installation mission
3815 activities to threatened and endangered species.

3816 **8.5.3 GTS**

3817 **TE GOAL 3: PROTECT LISTED SPECIES AND THEIR HABITATS AT GTS**

3818 • TE OBJECTIVE 3.1: Monitor threatened and endangered species found within GTS, and
3819 communicate locations and occurrences to NEARNG personnel.

3820 • TE OBJECTIVE 3.2: Conserve known threatened and endangered species and habitat
3821 found within GTS.

3822 • TE OBJECTIVE 3.3: Reduce/mitigate potential impacts from installation mission
3823 activities to threatened and endangered species.

3824 •

3825 **8.5.4 GTS-SC**

3826 **TE GOAL 4: PROTECT LISTED SPECIES AND THEIR HABITATS AT GTS-SC**

3827 • TE OBJECTIVE 4.1: Monitor threatened and endangered species found within GTS-SC,
3828 and communicate locations and occurrences to NEARNG personnel.

3829 • TE OBJECTIVE 4.2: Conserve known threatened and endangered species and habitat
3830 found within GTS-SC.

3831 • TE OBJECTIVE 4.3: Reduce/mitigate potential impacts from installation mission
3832 activities to threatened and endangered species.

3833 **8.6 WATER RESOURCES PROTECTION**

3834 Water resources protection is important to natural resources management because it directly
3835 affects surface water quality and the value of aquatic habitats. The NEARNG currently complies
3836 with a number of federal, state, local, and Army environmental regulations that require the
3837 installation to have detailed spill control and response procedures and to implement stormwater
3838 management goals to reduce the pollutant loadings in point source and non-point source
3839 discharges and to ensure efficient water reuse. The objective of these regulations is to prevent
3840 pollutants from entering the watershed, thus protecting surface waters. Specific watershed
3841 protection measures used by the installation include spill clean-up equipment at industrial
3842 locations, IPM, and reduction of fertilizer applications.

3843 The water resource protection objectives and actions presented in this INRMP are designed to
3844 reduce/control nutrient and sediment inputs into the watershed. In addition, the NEARNG
3845 Natural Resources Manager seeks to minimize nonpoint source pollution of both surface water
3846 and groundwater in the watershed. To effectively manage the watersheds of each installation,

3847 installation personnel and the NEARNG Natural Resources Manager must understand ecosystem
3848 dynamics within the watershed in an effort to prevent or respond to threats to its integrity.

3849 The following goals apply to projects listed for each installation in Table 10-2.

3850 **8.6.1 CATS**

3851 **WRP GOAL 1: REMAIN IN COMPLIANCE WITH FEDERAL, STATE, LOCAL, AND** 3852 **ARNG ENVIRONMENTAL REGULATIONS AND POLICIES AT CATS**

- 3853 • WRP OBJECTIVE 1.1: Monitor, maintain, protect, and improve water quality at CATS.

3854 **8.6.2 CATS-M**

3855 **WRP GOAL 2: REMAIN IN COMPLIANCE WITH FEDERAL, STATE, LOCAL, AND** 3856 **ARNG ENVIRONMENTAL REGULATIONS AND POLICIES AT CATS-M**

- 3857 • WRP OBJECTIVE 2.1: Monitor, maintain, protect, and improve water quality at CATS-
3858 M.

3859 **8.6.3 GTS**

3860 **WRP GOAL 3: REMAIN IN COMPLIANCE WITH FEDERAL, STATE, LOCAL, AND** 3861 **ARNG ENVIRONMENTAL REGULATIONS AND POLICIES AT GTS**

- 3862 • WRP OBJECTIVE 3.1: Monitor, maintain, protect, and improve water quality at GTS.

3863 **8.6.4 GTS-SC**

3864 **WRP GOAL 4: REMAIN IN COMPLIANCE WITH FEDERAL, STATE, LOCAL, AND** 3865 **ARNG ENVIRONMENTAL REGULATIONS AND POLICIES AT GTS-SC**

- 3866 • WRP OBJECTIVE 4.1: Monitor, maintain, protect, and improve water quality at GTS-
3867 SC.

3868 **8.6.5 CATS-M**

3869 **WRP GOAL 5: PROTECT CATS-M INSTALATION WATER RESOURES FROM** 3870 **POTENTIAL OFF-SITE IMPACTS**

- 3871 • WRP OBJECTIVE 5.1: Monitor and respond to potential threats to CATS-M installation
3872 groundwater resources from off-site contamination sources.

3873 **8.6.6 GTS**

3874 **WRP GOAL 6: PROTECT GTS INSTALATION WATER RESOURES FROM** 3875 **POTENTIAL OFF-SITE IMPACTS**

- 3876 • WRP OBJECTIVE 6.1: Monitor and respond to potential threats to GTS installation
3877 groundwater resources from off-site contamination sources.

3878 **8.7 WETLAND PROTECTION**

3879 Wetlands are protected as a subset of the “waters of the United States” under Section 404 of the
3880 CWA. The term “waters of the United States” has broad meaning under the CWA and
3881 incorporates deep water aquatic habitats and special aquatic habitats (including wetlands).
3882 Jurisdictional waters of the United States are areas regulated under the CWA and also include
3883 coastal and inland waters, lakes, rivers, ponds, streams, intermittent streams, vernal pools, and
3884 “other” waters that if degraded or destroyed could affect interstate commerce.

3885 Section 404 of the CWA authorizes the Secretary of the Army, acting through the Chief of
3886 Engineers, to issue permits for the discharge of dredged or fill materials into the waters of the
3887 United States, including wetlands. Therefore, even an inadvertent encroachment into wetlands
3888 or other waters of the United States that results in displacement or movement of soil or fill
3889 materials has the potential to be viewed as a violation of the CWA if an appropriate permit has
3890 not been issued by the USACE. Wetlands are also protected under EO 11990, Protection of
3891 Wetlands (43 Federal Register 6030) (National Archives and Records Administration 1977).
3892 The purpose of this EO is to reduce adverse impacts associated with the destruction or
3893 modification of wetlands.

3894 Any actions that require a federal permit, license, or approval that results in a discharge into
3895 waters of the United States, including Section 404 individual dredge and fill permits and
3896 nationwide permits, require a state water quality certification. The Planning Unit at the Nebraska
3897 Department of Environmental Quality Section 401 Water Quality Certification Program in
3898 accordance with Section 401 of the Clean Water Act for the state of Nebraska. Nebraska
3899 Department of Environment and Energy evaluates applications for federal section 404 permits
3900 authorizing dredge and fill activities in surface waters and determines if the proposed activity
3901 complies with NDEE Title 117 – Nebraska Surface Water Quality Standards. NDEE has the
3902 authority and responsibility under Title 117 for all surface waters and dredge and fill activities in
3903 wetlands are subject to the Anti-degradation Clause of Title 117.

3904
3905 The NEARNG is responsible for identifying and locating jurisdictional waters of the United
3906 States, including wetlands occurring on each installation, where these resources have the
3907 potential to be impacted by military mission activities. Such impacts could include construction
3908 of roads, buildings, navigational aids, and other appurtenant structures or activities as simple as
3909 culvert crossings of small intermittent streams, rip-rap placement in stream channels to curb
3910 accelerated erosion, and incidental fill and grading of wet depressions.

3911 The major goal in wetland management is to minimize the impact that the NEARNG missions
3912 have on wetlands. The NEARNG strives to enhance healthy, functional wetlands that can
3913 sustain minor operational influences outside indirect infringement of wetlands. When possible,
3914 the goal is set to enhance wetland functions to create wetlands that maximize the values that
3915 wetlands have within the ecosystem and to society. It is also the goal to maximize floral
3916 diversity of wetland communities that, in turn, maximize the faunal diversity of the ecosystem.
3917 To meet the goals of wetland management, the following topics of concern identify actions that

3918 compromise achieving particular goals and presents objectives and management actions designed
3919 to meet the wetland management goals.

3920 The following goals apply to projects listed for each installation in Table 10-2.

3921 **8.7.1 CATS**

3922 **WP GOAL 1: MAINTAIN HEALTHY, FUNCTIONAL WETLANDS AT CATS**

3923 • WP OBJECTIVE 1.1: Determine the federal and state regulatory status of the wetlands
3924 at CATS.

3925 • WP OBJECTIVE 1.2: Conserve wetland habitats at CATS.

3926 • WP OBJECTIVE 1.3: Monitor the wetlands of the East Chute. The East Chute was
3927 restored by the USACE as a mitigation measure for construction of the Western Sarpy
3928 Clear Creek Levee (WSCC) and to ensure that this system is functioning as designed.

3929 • WP OBJECTIVE 1.4: Restore/create wetlands to enhance watershed function and value.

3930 • WP OBJECTIVE 1.5: Maintain updated inventory of wetland and riparian areas at
3931 CATS. Update inventory with data from delineations and biological surveys.

3932 **8.7.2 CATS-M**

3933 **WP GOAL 2: MAINTAIN HEALTHY, FUNCTIONAL WETLANDS AT CATS-M**

3934 • WP OBJECTIVE 2.1: Determine the federal and state regulatory status of the wetlands
3935 at CATS-M.

3936 • WP OBJECTIVE 2.2: Conserve wetland habitats at CATS-M.

3937 • WP OBJECTIVE 2.3: Monitor the wetlands along Johnson Creek. The Johnson Creek
3938 has numerous areas repaired to promote better habitat for all wildlife and to reduce
3939 erosion along Johnson Creek by implementing rock riffle structures and meandering.

3940 • WP OBJECTIVE 2.4: Restore/create wetlands to enhance watershed function and value.

3941 • WP OBJECTIVE 2.5: Maintain updated inventory of wetland and riparian areas at
3942 CATS-M. Update inventory with data from delineations and biological surveys.
3943

3944 **8.7.3 GTS**

3945 **WP GOAL 3: MAINTAIN HEALTHY, FUNCTIONAL WETLANDS AT GTS**

3946 • WP OBJECTIVE 3.1: Determine the federal and state regulatory status of the wetlands
3947 at GTS.

- 3948 • WP OBJECTIVE 3.2: Conserve wetland habitats at GTS.
- 3949 • WP OBJECTIVE 3.3: Restore/create wetlands to enhance watershed function and value.
- 3950 • WP OBJECTIVE 1.5: Maintain updated inventory of wetland and riparian areas at GTS.
3951 Update inventory with data from delineations and biological surveys.

3952 **8.7.4 GTS-SC**

3953 **WP GOAL 4: MAINTAIN HEALTHY, FUNCTIONAL WETLANDS AT GTS-SC**

- 3954 • WP OBJECTIVE 4.1: Determine the federal and state regulatory status of the wetlands
3955 at GTS-SC.
- 3956 • WP OBJECTIVE 4.2: Conserve wetland habitats at GTS-SC.
- 3957 • WP OBJECTIVE 2.3: Restore/create wetlands to enhance watershed function and value.
- 3958 • WP OBJECTIVE 1.5: Maintain updated inventory of wetland and riparian areas at GTS-
3959 SC. Update inventory with data from delineations and biological surveys.
3960

3961 **8.8 GROUNDS MAINTENANCE**

3962 Installation grounds maintenance personnel perform most grounds maintenance activities at each
3963 installation. Normal grounds maintenance operations are focused on lawn care, trail
3964 maintenance, landscaping maintenance, pest management, and snow removal.

3965 The following goals apply to projects listed for each installation in Table 10-2.

3966 **8.8.1 CATS**

3967 **GM GOAL 1: COMPLETE GROUNDS MAINTENANCE AND LAND MANAGEMENT** 3968 **ACTIONS THAT ENHANCE AND BALANCE THE PHYSICAL (SOIL AND WATER)** 3969 **AND BIOLOGICAL (PLANT AND ANIMAL) COMMUNITIES AT CATS**

- 3970 • GM OBJECTIVE 1.1: Maintain optimal land conditions at CATS.

3971 **8.8.2 CATS-M**

3972 **GM GOAL 2: COMPLETE GROUNDS MAINTENANCE AND LAND MANAGEMENT** 3973 **ACTIONS THAT ENHANCE AND BALANCE THE PHYSICAL (SOIL AND WATER)** 3974 **AND BIOLOGICAL (PLANT AND ANIMAL) COMMUNITIES AT CATS-M**

- 3975 • GM OBJECTIVE 2.1: Maintain optimal land conditions at CATS-M.

3976 **8.8.3 GTS**3977 **GM GOAL 3: COMPLETE GROUNDS MAINTENANCE AND LAND MANAGEMENT**
3978 **ACTIONS THAT ENHANCE AND BALANCE THE PHYSICAL (SOIL AND WATER)**
3979 **AND BIOLOGICAL (PLANT AND ANIMAL) COMMUNITIES AT GTS**

- 3980
- GM OBJECTIVE 3.1: Maintain optimal land conditions at GTS.

3981 **8.8.4 GTS-SC**3982 **GM GOAL 4: COMPLETE GROUNDS MAINTENANCE AND LAND MANAGEMENT**
3983 **ACTIONS THAT ENHANCE AND BALANCE THE PHYSICAL (SOIL AND WATER)**
3984 **AND BIOLOGICAL (PLANT AND ANIMAL) COMMUNITIES AT GTS-SC**

- 3985
- GM OBJECTIVE 4.1: Maintain optimal land conditions at GTS-SC.

3986 **8.9 FOREST AND GRASSLAND MANAGEMENT**3987 Each installation is a mix of forest and grassland areas that require management to maintain a
3988 native habitat and control invasive species. Several aspects of forest and grassland management
3989 are also included in other elements of this INRMP.

3990 The following goals apply to projects listed for each installation in Table 10-2.

3991 **8.9.1 CATS**3992 **FGM GOAL 1: MAINTAIN HEALTHY, FUNCTIONAL FORESTS AND**
3993 **GRASSLANDS AT CATS**

- 3994
- FGM OBJECTIVE 1.1: Maintain healthy forest ecosystem by implementing the Forestry
3995 Management Plan.
 - FGM OBJECTIVE 1.2: Conserve and create grassland habitat by implementing goals
3996 and objectives outlined in the Prairie/Tract Management Plans and understanding and
3997 managing the resource.

3999 **8.9.2 CATS-M**4000 **FGM GOAL 2: MAINTAIN HEALTHY, FUNCTIONAL FORESTS AND**
4001 **GRASSLANDS AT CATS-M**

- 4002
- FGM OBJECTIVE 2.1: Maintain healthy forest ecosystem by implementing the Forestry
4003 Management Plan.
 - FGM OBJECTIVE 2.2: Conserve grassland habitat by implementing the goals and
4004 objectives outlined in the Prairie/Tract Management Plans and understanding and
4005 managing the resource.

4007 **8.9.3 GTS**4008 **FGM GOAL 3: MAINTAIN HEALTHY, FUNCTIONAL FORESTS AND**
4009 **GRASSLANDS AT GTS**

- 4010 • FGM OBJECTIVE 3.1: Maintain healthy forest ecosystem by implementing the Forestry
4011 Management Plan.
- 4012 • FGM OBJECTIVE 3.2: Conserve grassland habitat by implementing the goals and
4013 objectives outlined in the Prairie/Tract Management Plans and understanding and
4014 managing the resource.

4015 **8.9.4 GTS-SC**4016 **FGM GOAL 4: MAINTAIN HEALTHY, FUNCTIONAL FORESTS AND**
4017 **GRASSLANDS AT GTS-SC**

- 4018 • FGM OBJECTIVE 4.1: Maintain healthy forest ecosystem by implementing the Forestry
4019 Management Plan.
- 4020 • FGM OBJECTIVE 4.2: Conserve grassland habitat by implementing goals and
4021 objectives outlined in the Prairie/Tract Management Plans and understanding and
4022 managing the resource.
- 4023 • FGM OBJECTIVE 4.3: Identify and restore prairie ecosystem areas to a native mixed-
4024 grass prairie.

4025 **8.10 WILDLAND FIRE MANAGEMENT**

4026 Successful wildland fire management can be used as a tool to prevent an accidental fire, reduce
4027 fuels, and to aid in the management of prairie ecology. An Integrated Wildland Fire
4028 Management Plan (IWFMP) is necessary to ensure appropriate fire management oversight.

4029 The following goals apply to projects listed for each installation in Table 10-2.

4030 **8.10.1 CATS**4031 **WFM GOAL 1: PROVIDE LAND MANAGEMENT UTILIZING PRESCRIBED BURNS**

- 4032 • WFM OBJECTIVE 1.1: Outline the specific guidance, procedures, and protocols in
4033 wildfire management and the planning and operating procedures involved with prescribed
4034 burning.
- 4035 • WFM OBJECTIVE 1.2: Manage herbaceous habitat using prescribed burns at CATS.

4036 **8.10.2 CATS-M**4037 **WFM GOAL 2: PROVIDE LAND MANAGEMENT UTILIZING PRESCRIBED BURNS**

4038 • WFM OBJECTIVE 2.1: Outline the specific guidance, procedures, and protocols in
4039 wildfire management and the planning and operating procedures involved with prescribed
4040 burning.

4041 • WFM OBJECTIVE 2.2: Manage herbaceous habitat using prescribed burns at CATS-M.

4042 **8.10.3 GTS**

4043 **WFM GOAL 3: PROVIDE LAND MANAGEMENT UTILIZING PRESCRIBED BURNS**

4044 • WFM OBJECTIVE 3.1: Outline the specific guidance, procedures, and protocols in
4045 wildfire management and the planning and operating procedures involved with prescribed
4046 burning.

4047 • WFM OBJECTIVE 3.2: Manage herbaceous habitat using prescribed burns at GTS.

4048 **8.10.4 GTS-SC**

4049 **WFM GOAL 4: PROVIDE LAND MANAGEMENT UTILIZING PRESCRIBED BURNS**

4050 • WFM OBJECTIVE 4.1: Outline the specific guidance, procedures, and protocols in
4051 wildfire management and the planning and operating procedures involved with prescribed
4052 burning.

4053 • WFM OBJECTIVE 4.2: Manage herbaceous habitat using prescribed burns at GTS-SC.

4054 **8.11 AGRICULTURAL OUTLEASING**

4055 The NEARNG is committed to maintaining agricultural leases at through producing and
4056 harvesting forage grasses and controlling invasive species to optimize forage production in
4057 identified lease areas. Agricultural outleasing to regional producers not only provides the public
4058 with access to an installation for production, but also is necessary as a maintenance tool in this
4059 ecosystem. Cattle grazing and hay production are used in some local areas to mimic the
4060 graze/fire dependent prairie ecosystem. However, due to the potential environmental damage
4061 that can result from impact associated with these activities, management goals have been
4062 developed to ensure that these activities remain productive and sustainable while providing
4063 beneficial ecosystem results. Leases must be managed to ensure that noxious weeds are
4064 controlled, the public is protected from installation operations, sustainable levels of harvest are
4065 conducted, that land and facilities are maintained, and that no significant alteration of the
4066 ecosystem occurs.

4067 The following goals apply to projects listed for each installation in Table 10-2.

4068 **8.11.1 CATS**

4069 **AG GOAL 1: MANAGE AGRICULTURAL OUTLEASING PROGRAM FOR** 4070 **OPTIMAL ENVIRONMENTAL HEALTH AND PRODUCTIVITY AT CATS**

- 4071 • AG OBJECTIVE 1.1: Ensure lease terms are maintained with specific focus on the tract
4072 management plan.
- 4073 • AG OBJECTIVE 1.2: Control the spread of invasive woody vegetation and noxious and
4074 invasive weeds.
- 4075 • AG OBJECTIVE 1.3: Reduce fuel loads to minimize the threat of wildfire within and
4076 around CATS property.
- 4077 • AG OBJECTIVE 1.4: Manage outlease areas to promote wildlife propagation and
4078 conservation within and around CATS property.
- 4079 • AG OBJECTIVE 1.5: Manage outlease areas in a way that provides suitable training
4080 environment in support of the military mission.

4081 **8.11.2 CATS-M**

4082 **AG GOAL 2: MANAGE AGRICULTURAL OUTLEASING PROGRAM FOR**
4083 **OPTIMAL ENVIRONMENTAL HEALTH AND PRODUCTIVITY AT CATS-M**

- 4084 • AG OBJECTIVE 2.1: Ensure lease terms are maintained with specific focus on the tract
4085 management plan.
- 4086 • AG OBJECTIVE 2.2: Control the spread invasive woody vegetation and noxious and
4087 invasive weeds.
- 4088 • AG OBJECTIVE 2.3: Reduce fuel loads to minimize the threat of wildfire within and
4089 around CATS-M property.
- 4090 • AG OBJECTIVE 2.4: Manage outlease areas to promote wildlife propagation and
4091 conservation within and around CATS-M property.
- 4092 • AG OBJECTIVE 2.5: Manage outlease areas in a way that provides suitable training
4093 environment in support of the military mission.

4094 **8.11.3 GTS**

4095 **AG GOAL 3: MANAGE AGRICULTURAL OUTLEASING PROGRAM FOR**
4096 **OPTIMAL ENVIRONMENTAL HEALTH AND PRODUCTIVITY AT GTS**

- 4097 • AG OBJECTIVE 3.1: Ensure lease terms are maintained with specific focus on the tract
4098 management plan.
- 4099 • AG OBJECTIVE 3.2: Control the spread invasive woody vegetation and noxious and
4100 invasive weeds.
- 4101 • AG OBJECTIVE 3.3: Reduce fuel loads to minimize the threat of wildfire within and
4102 around GTS property.

- 4103 • AG OBJECTIVE 3.4: Manage outlease areas to promote wildlife propagation and
4104 conservation within and around GTS property.
- 4105 • AG OBJECTIVE 3.5: Manage outlease areas in a way that provides suitable training
4106 environment in support of the military mission.

4107 **8.11.4 GTS-SC**

4108 **AG GOAL 4: MANAGE AGRICULTURAL OUTLEASING PROGRAM FOR** 4109 **OPTIMAL ENVIRONMENTAL HEALTH AND PRODUCTIVITY AT GTS-SC**

- 4110 • AG OBJECTIVE 4.1: Ensure lease terms are maintained with specific focus on the tract
4111 management plan.
- 4112 • AG OBJECTIVE 4.2: Control the spread invasive woody vegetation and noxious and
4113 invasive weeds.
- 4114 • AG OBJECTIVE 4.3: Reduce fuel loads to minimize the threat of wildfire within and
4115 around GTS-SC property.
- 4116 • AG OBJECTIVE 4.4: Manage outlease areas to promote wildlife propagation and
4117 conservation within and around GTS property.
- 4118 • AG OBJECTIVE 4.5: Manage outlease areas in a way that provides suitable training
4119 environment in support of the military mission.

4120 **8.12 INTEGRATED PEST MANAGEMENT PROGRAM**

4121 Native plant and animal communities have been adversely impacted by development and the
4122 introduction of non-native species. Non-native species are those plants or animal species that
4123 were not present during European settlement. Due to aggressive growth habits of many non-
4124 native species, the species have become invasive and out-compete the native plants and animals.
4125 “An invasive species is defined as a species that is non-native (or alien) to the ecosystem under
4126 consideration and whose introduction causes or is likely to cause economic or environmental
4127 harm or harm to human health” (EO 13112) (National Archives and Records Administration
4128 1999). Invasive species put native plants and animals at risk. Invasive plants, which can be both
4129 native and non-native, result in the loss of diversity within a local plant community.

4130 DoDI 4150.7, Pest Management Program, is a DoD policy to establish and maintain safe,
4131 effective, and environmentally sound Pest and Invasive Species Management Plans to prevent or
4132 control pests and disease vectors that could adversely impact readiness or military operations by
4133 affecting the health of personnel or damaging structures, material, or property. The policy set
4134 Measures of Merit for pest management, which require each installation to develop an Invasive
4135 Species Management Plan, use sound invasive species management strategies, and certify all
4136 pesticide applicators. A copy of the ISMP is summarized in Appendix E. The NEARNG will
4137 control invasive species using an ecosystem-based approach that conserves biodiversity while
4138 preserving the military mission from associate infringement.

4139 The following goals apply to projects listed for each installation in Table 10-2.

4140 **8.12.1 CATS**

4141 **IPM GOAL 1: CONTROL NOXIOUS AND INVASIVE SPECIES**

- 4142 • IPM OBJECTIVE 1.1: On an annual basis, implement protocols established in the ISMP.
- 4143 • IPM OBJECTIVE 1.2: Conduct noxious and invasive species surveys as needed and
4144 continue to monitor known infestation areas. Implement control measures at the
4145 installation level as resources and staffing allows.
- 4146 • IPM OBJECTIVE 1.3: Control the spread of native invasive flora such as Eastern red
4147 cedar and reed canary grass by maintaining hay leases and applying mechanical thinning
4148 and spot spraying treatments when necessary.

4149 **8.12.2 CATS-M**

4150 **IPM GOAL 2: CONTROL NOXIOUS AND INVASIVE SPECIES**

- 4151 • IPM OBJECTIVE 2.1: On an annual basis, implement protocols established in the ISMP.
- 4152 • IPM OBJECTIVE 2.2: Conduct noxious and invasive species surveys as needed and
4153 continue to monitor known infestation areas. Implement control measures at the
4154 installation level as resources and staffing allows.
- 4155 • IPM OBJECTIVE 2.3: Control the spread of native invasive flora such as Eastern red
4156 cedar and reed canary grass by maintaining hay leases and applying mechanical thinning
4157 and spot spraying treatments when necessary.

4158 **8.12.3 GTS**

4159 **IPM GOAL 3: CONTROL NOXIOUS AND INVASIVE SPECIES**

- 4160 • IPM OBJECTIVE 3.1: On an annual basis, implement protocols established in the ISMP.
- 4161 • IPM OBJECTIVE 3.2: Conduct noxious and invasive species surveys as needed and
4162 continue to monitor known infestation areas. Implement control measures at the
4163 installation level as resources and staffing allows.
- 4164 • IPM OBJECTIVE 3.3: Control the spread of native invasive flora such as Eastern red
4165 cedar and reed canary grass by maintaining hay leases and applying mechanical thinning
4166 and spot spraying treatments when necessary.
4167

4168 **8.12.4 GTS-SC**4169 **IPM GOAL 4: CONTROL NOXIOUS AND INVASIVE SPECIES**

- 4170 • IPM OBJECTIVE 4.1: On an annual basis, implement protocols established in the ISMP.
- 4171 • IPM OBJECTIVE 4.2 Conduct noxious and invasive species surveys as needed and
4172 continue to monitor known infestation areas. Implement control measures at the
4173 installation level as resources and staffing allows.
- 4174 • IPM OBJECTIVE 4.3: Control the spread of invasive flora such as Eastern red cedar and
4175 reed canary grass by maintaining hay leases and applying mechanical thinning and spot
4176 spraying treatments when necessary.

4177 **8.13 PUBLIC OUTREACH**

4179 Maintaining a quality public outreach program is dependent on military mission, proper
4180 management of natural resources, and efficient program administration and oversight. The
4181 unique characteristics and needs of military operations make the evaluation criteria more specific
4182 and the spectrum of opportunities narrower.

4183 When military activity in any given area is not compatible with a particular public use, that area
4184 will be closed until the military activity is completed. Closure of gates indicates no admittance.
4185 To assist in the management, study, or monitoring of natural resources, federal, state, and local
4186 officials and natural resource management professionals are given access to Installation natural
4187 resources after proper safety and security measures are met. Additionally, selected areas and
4188 impoundments may be closed to recreational access for management purposes (e.g., population
4189 management, weed control, habitat restoration, or habitat/species protection).

4190 People and social uses/needs are an integral part of ecosystem management. The needs of the
4191 military mission determine the extent of public outreach activities allowed. Special
4192 consideration will be given to protecting critical areas from negative impacts due to public access
4193 or ecosystem management activities.

4194 The following goals apply to projects listed for each installation in Table 10-2.

4195 **8.13.1 CATS**

4196 **PO GOAL 1: PROVIDE QUALITY PUBLIC OUTREACH EXPERIENCES, WHILE**
4197 **SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT PUBLIC OUTREACH**
4198 **OPPORTUNITIES ARE NOT IN CONFLICT WITH CATS MISSION PRIORITIES**

- 4199 • PO OBJECTIVE 1.1: Develop a Public Outreach Program to promote the involvement
4200 of CATS with community groups and other agencies to assist with regional conservation
4201 efforts, research opportunities, and public outreach programs.

4202 **8.13.2 CATS-M**

4203 **PO GOAL 2: PROVIDE QUALITY PUBLIC OUTREACH EXPERIENCES, WHILE**
4204 **SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT PUBLIC OUTREACH**
4205 **OPPORTUNITIES ARE NOT IN CONFLICT WITH CATS-M MISSION PRIORITIES**

- 4206 • PO OBJECTIVE 2.1: Develop a Public Outreach Program to promote the involvement
4207 of CATS-M with community groups and other agencies to assist with regional
4208 conservation efforts, research opportunities, and public outreach programs.

4209 **8.13.3 GTS**

4210 **PO GOAL 3: PROVIDE QUALITY PUBLIC OUTREACH EXPERIENCES, WHILE**
4211 **SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT PUBLIC OUTREACH**
4212 **OPPORTUNITIES ARE NOT IN CONFLICT WITH GTS MISSION PRIORITIES**

- 4213 • PO OBJECTIVE 3.1: Develop a Public Outreach Program to promote the involvement
4214 of GTS with community groups and other agencies to assist with regional conservation
4215 efforts, research opportunities, and public outreach programs.

4216 **8.13.4 GTS-SC**

4217 **PO GOAL 4: PROVIDE QUALITY PUBLIC OUTREACH EXPERIENCES, WHILE**
4218 **SUSTAINING ECOSYSTEM INTEGRITY. ENSURE THAT PUBLIC OUTREACH**
4219 **OPPORTUNITIES ARE NOT IN CONFLICT WITH GTS-SC MISSION PRIORITIES**

- 4220 • PO OBJECTIVE 4.1: Develop a Public Outreach Program to promote the involvement
4221 of GTS-SC with community groups and other agencies to assist with regional
4222 conservation efforts, research opportunities, and public outreach programs.

4223 **8.14 GEOGRAPHIC INFORMATION SYSTEM**

4224 The use of a GIS is to manage and catalog information acquired in natural resources research.
4225 The GIS assists in planning by charting areas of environmental concern and providing a baseline
4226 for analyzing the potential impacts of any proposed natural resources management action.
4227 Managers can implement the capabilities of a GIS to watershed, wetlands, wildlife, and various
4228 other natural resource management applications.

4229 The following goals apply to projects listed for each installation in Table 10-2.

4230 **8.14.1 CATS**

4231 **GIS GOAL 1: CONTINUED USE, DEVELOPMENT, AND MAINTENANCE OF**
4232 **GEODATABASE FOR NATURAL RESOURCES MANAGEMENT AT CATS**

- 4233 • GIS OBJECTIVE 1.1: Continue to update GIS database with data as it is collected.
4234 Update and digitize natural resources and infrastructure information to allow a
4235 comprehensive GIS tool to be used by installation personnel. Updating and Compiling
4236 Data from Natural Resource Surveys and Studies Completed on the installation.

4237 **8.14.2 CATS-M**4238 **GIS GOAL 2: CONTINUED USE, DEVELOPMENT, AND MAINTENANCE OF**
4239 **GEODATABASE FOR NATURAL RESOURCES MANAGEMENT AT CATS-M**

- 4240 • GIS OBJECTIVE 2.1: Continue to update GIS database with data as it is collected.
4241 Update and digitize natural resources and infrastructure information to allow a
4242 comprehensive GIS tool to be used by installation personnel. Updating and Compiling
4243 Data from Natural Resource Surveys and Studies Completed on the installation.

4244 **8.14.3 GTS**4245 **GIS GOAL 3: CONTINUED USE, DEVELOPMENT, AND MAINTENANCE OF**
4246 **GEODATABASE FOR NATURAL RESOURCES MANAGEMENT AT GTS**

- 4247 • GIS OBJECTIVE 3.1: Continue to update GIS database with data as it is collected.
4248 Update and digitize natural resources and infrastructure information to allow a
4249 comprehensive GIS tool to be used by installation personnel. Updating and Compiling
4250 Data from Natural Resource Surveys and Studies Completed on the installation

4251 **8.14.4 GTS-SC**4252 **GIS GOAL 4: CONTINUED USE, DEVELOPMENT, AND MAINTENANCE OF**
4253 **GEODATABASE FOR NATURAL RESOURCES MANAGEMENT AT GTS-SC**

- 4254 • GIS OBJECTIVE 4.1: Continue to update GIS database with data as it is collected.
4255 Update and digitize natural resources and infrastructure information to allow a
4256 comprehensive GIS tool to be used by installation personnel. Updating and Compiling
4257 Data from Natural Resource Surveys and Studies Completed on the installation.

4258 **8.15 CLIMATE CHANGE**

4259 Climate change can happen on a local level that could impact the military mission. Changes in
4260 precipitation and temperature ranges could result in changes to the species of vegetation or
4261 wildlife habitat present at each installation that could impact training areas. Because of the
4262 geographic size of the installations, the NEARNG will look at existing information including
4263 regional plans, partnerships (including the NGPC), or reports that other entities are conducting
4264 on assessing and/or implementing climate change adaptation strategies for collaboration of
4265 ecosystem management.

4266 The following goals apply to projects listed for each installation in Table 10-2.

4267 **8.15.1 CATS**4268 **CC GOAL 1: INCORPORATE CLIMATE CHANGE ADAPTATION STRATEGIES**

- 4269 • CC OBJECTIVE 1.1: Implement climate change adaptation strategies to target
4270 installation-specific areas of concern including but not limited to: increased storm
4271 severity, flooding, drought, fire, and species range shifts. Incorporate guidance from

4272 climate change experts as well as local and regional conservation/land management
4273 organizations.

4274 **8.15.2 CATS-M**

4275 **CC GOAL 2: INCORPORATE CLIMATE CHANGE ADAPTATION STRATEGIES**

- 4276 • CC OBJECTIVE 2.1: Implement climate change adaptation strategies to target
4277 installation-specific areas of concern including but not limited to: increased storm
4278 severity, flooding, drought, fire, and species range shifts. Incorporate guidance from
4279 climate change experts as well as local and regional conservation/land management
4280 organizations.

4281 **8.15.3 GTS**

4282 **CC GOAL 3: INCORPORATE CLIMATE CHANGE ADAPTATION STRATEGIES**

- 4283 • CC OBJECTIVE 3.1: Implement climate change adaptation strategies to target
4284 installation-specific areas of concern including but not limited to: increased storm
4285 severity, flooding, drought, fire, and species range shifts. Incorporate guidance from
4286 climate change experts as well as local and regional conservation/land management
4287 organizations.

4288 **8.15.4 GTS-SC**

4289 **CC GOAL 4: INCORPORATE CLIMATE CHANGE ADAPTATION STRATEGIES**

- 4290 • CC OBJECTIVE 4.1: Implement climate change adaptation strategies to target
4291 installation-specific areas of concern including but not limited to: increased storm
4292 severity, flooding, drought, fire, and species range shifts. Incorporate guidance from
4293 climate change experts as well as local and regional conservation/land management
4294 organizations.

4295 **9. INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN**
4296 **IMPLEMENTATION**

4297 **9.1 INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN**
4298 **IMPLEMENTATION**

4299 **9.1.1 Implementation**

4300 The INRMP Program has been organized to ensure the implementation of year-round, cost-
4301 effective management activities and projects that meet the requirements of the installation. The
4302 various organizations on the installation that are responsible for implementation of the INRMP
4303 are described below.

4304 ***Installation Stakeholders***—The NEARNG Natural Resources Manager is responsible for the
4305 overall implementation of the INRMP. The INRMP Working Group will be comprised of key
4306 installation personnel from the NEARNG, in addition to the NGB Natural Resources Program
4307 Manager who will provide technical assistance when necessary.

4308 The Commander of the NEARNG will be the official signatory for the INRMP and the annual
4309 reviews. The installation's Natural Resources Manager is responsible for ensuring the activities
4310 associated with the implementation of this plan adhere to applicable federal, state, local, and US
4311 Army environmental regulations and guidelines. The NGB Natural Resources Program Manager
4312 tracks DoD and US Army policies and approves funding for projects and studies identified as a
4313 priority in this plan. The NGB Natural Resources Program Manager acts as a technical point of
4314 contact on all natural resources-related activities. Projects proposed in this plan are reviewed by
4315 the installation's Natural Resources Manager and the NGB Natural Resources Program Manager.
4316 Deviation from the projects proposed in this plan should be independently reviewed by the NGB
4317 Natural Resources Program Manager.

4318 ***External Stakeholders***—The USFWS and NGPC can provide technical assistance to the
4319 installation. Specifically, these agencies will alert the Natural Resources Manager whenever new
4320 species that have the potential for inhabiting the installation are added to the federal and state
4321 endangered species lists. In addition, these agencies will be involved in the annual review of the
4322 INRMP and updates to the INRMP determined to be necessary because of changes in
4323 environmental conditions or the mission.

4324 **9.1.2 Monitoring Integrated Natural Resources Management Plan Implementation**

4325 A variety of metrics will be used to measure the extent of INRMP implementation. In general,
4326 the Natural Resources Manager will be responsible for implementing the goals, objectives, and
4327 projects described in this INRMP. The following monitoring criteria have been established for
4328 each resource management.

- 4329
- 4330 • ***Natural Resources Program Management***—Monitoring criteria will include
4331 documented completion of the annual coordination meeting with USFWS and NGPC.
4332 When the annual INRMP review is conducted, concurrence from the signatory agencies
4333 will be obtained, and the INRMP document will be amended accordingly.

- 4334
- 4335 • ***Fish and Wildlife Management***—Monitoring criteria will include assessing habitat and
- 4336 wildlife on the installations to ensure healthy populations.
- 4337
- 4338 • ***Outdoor Recreation and Public Access to Natural Resources***—Monitoring criteria will
- 4339 include monitoring use of the nature trails and hunting, fishing, and camping by civilians
- 4340 and installation personnel, when applicable.
- 4341
- 4342 • ***Conservation Law Enforcement***—Monitoring criteria will include ensuring that the Site
- 4343 Manager or appropriate personnel conducts routine patrols, observes activities on the
- 4344 installations, and notifies the appropriate state agency when law enforcement is needed.
- 4345
- 4346 • ***Threatened and Endangered Species and Habitats Management***—Monitoring criteria
- 4347 will include annual updates of the listed rare, threatened, and endangered species or their
- 4348 habitats occurring on the installations. Management actions will be implemented to
- 4349 avoid or minimize impacts to any protected species or habitats if they occur.
- 4350
- 4351 • ***Water Resource Protection***—Monitoring criteria will include regular inspections of
- 4352 stormwater and erosion and sediment control BMPs to ensure proper functioning. These
- 4353 controls and practices are set in place to make sure that impacts to water resources
- 4354 associated with accidental spills and leakage from vehicles and equipment are minimized.
- 4355
- 4356 • ***Wetland Protection***—Monitoring criteria for wetlands will include assessing the
- 4357 effectiveness of wetlands management to curtail wetland encroachment. Any
- 4358 unavoidable impacts to wetlands will be fully mitigated and in compliance with
- 4359 regulations.
- 4360
- 4361 • ***Grounds Maintenance***—Monitoring criteria will include regular assessment of the use of
- 4362 native species throughout the installations. Drainage patterns will also be monitored to
- 4363 ensure that problems do not occur.
- 4364
- 4365 • ***Forest and Grassland Management***—Monitoring criteria will include regular surveys to
- 4366 determine the health of the trees and grasslands throughout the installations.
- 4367
- 4368 • ***Wildland Fire Management***—Monitoring criteria will include surveys to determine if
- 4369 prescribed burns are an effective measure to manage invasive species and to maintain
- 4370 herbaceous habitat.
- 4371
- 4372 • ***Agriculture Outlease***—Monitoring criteria will include surveys to determine if the
- 4373 agriculture outleases are an effective measure to manage invasive species and to reduce
- 4374 fuel for fire.
- 4375
- 4376 • ***Integrated Pest Management***—Monitoring criteria will include ensuring that IPM
- 4377 practices are incorporated into pest management approaches on the installation. The
- 4378 ISMP will be updated based on USDA Animal and Plant Health Inspection Service
- 4379 Wildlife Services recommendations. After treatment of invasive species and removal of

4380 nuisance species, post-monitoring will be implemented to determine the success of the
4381 effort.

4382

4383 • **Public Outreach**—Monitoring criteria will include assessing the overall success of
4384 programs offered at the installation.

4385

4386 • **GIS**—Monitoring will include measuring the effectiveness and accuracy of the Natural
4387 Resources Geodatabase.

4388

4389 • **Climate Change**—Monitoring criteria will include assessing the short-term and long-
4390 term impacts of climate change and implementing BMPs to mitigate the effects climate
4391 change has on the installations.

4392 **9.2 ANNUAL INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN**
4393 **REVIEW AND COORDINATION REQUIREMENTS**

4394 To ensure that this INRMP properly addresses all aspects of the natural resources present on the
4395 installations and proposes actions that are in accordance with US Army goals and objectives, this
4396 plan and all its components are subject to review by NEARNG’s Environmental Management
4397 Office and the NGB Natural Resources Program Manager. Similarly, all changes to be
4398 incorporated into this plan must be approved by the installation, USFWS, and NGPC.

4399 **9.3 INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN UPDATE AND**
4400 **REVISION PROCESS**

4401 This INRMP is in effect from the date that all required signatures have been received; however,
4402 the Operational Component Plans must be updated annually during preparation of the
4403 NEARNG’s environmental budgets.

4404 This INRMP should be reviewed internally on an annual basis to assess the recommended
4405 management practices in terms of their appropriateness for current conditions at the installation.
4406 The INRMP should also be coordinated annually with the USFWS and NGPC. In addition, the
4407 INRMP should be updated whenever there is a modification to the installation’s missions, or
4408 when there is a substantial change to the installation’s natural or cultural resources.

4409

10. ANNUAL PROJECT IMPLEMENTATION TABLES

4410 The purpose of this chapter is to present a road map for the execution of specific actions to
4411 achieve management goals and objectives identified in this INRMP.

4412 The tables provided in Chapter 10 summarize the management actions for the NEARNG
4413 installations and propose priorities for their implementation from 2022 through 2026. The
4414 actions proposed for this INRMP are aggressive and might not be accomplished within the
4415 established timelines due to a number of factors (e.g., budget and manpower constraints, wartime
4416 tasks). However, their importance to the proper management of the installation's natural
4417 resources cannot be understated. Therefore, the management actions presented in the Chapter 10
4418 tables should be modified as part of the annual review of this INRMP by the INRMP Working
4419 Group to ensure that these goals are continually emphasized and accomplished when practicable.

4420 This INRMP reflects the commitment set forth by the NEARNG to conserve, protect, and
4421 enhance the natural resources present on the installation. This INRMP is the final plan that will
4422 direct the natural resources management at the installation from Fiscal Years 2022 through 2026.
4423 An ecosystem approach was used to develop the management measures for each resource area.
4424 Implementation of the management measures will maintain, conserve, and enhance the
4425 ecological integrity of the installation and the biological communities occurring on the
4426 installation. In addition, the natural resources management measures described in this plan will
4427 protect the installation's ecosystems and their components from unacceptable damage or
4428 degradation and identify and restore previously degraded habitats.

4429 Natural resources and land use management issues are not the only factors contributing to the
4430 development and implementation of the INRMP. Installation management and other seemingly
4431 unrelated issues affect the implementation of this Plan. It is of utmost importance to the
4432 implementation of this INRMP that installation personnel take "ownership" of the Plan (i.e.,
4433 individual or organizational primary responsibility to implement the INRMP), provide the
4434 necessary resources (i.e., personnel and equipment), and allocate the appropriate funding to enact
4435 the Plan. It is extremely important that an INRMP Working Group be established to aid in the
4436 continued development of and commitment to the implementation of this INRMP. The INRMP
4437 Working Group should be comprised of key installation personnel and will assume an oversight
4438 role to ensure the effective implementation of this plan. Top- and middle-level management
4439 representation, as well as representation from several individuals with day-to-day on-installation
4440 field experience, will provide the INRMP Working Group with the leadership and structure
4441 necessary for the successful implementation of this INRMP.

4442 Any requirement for the obligation of funds for projects in this INRMP shall be subject to the
4443 availability of funds appropriated by Congress, and none of the proposed projects shall be
4444 interpreted to require obligation or payment of funds in violation of any applicable federal law.
4445 Implementation of the actions and projects described in this INRMP are guided by how budget
4446 priorities are assessed for environmental work on DoD installations. This is described in
4447 DoDI 4715.03, *Natural Resources Conservation Program*, which implements policy, assigns
4448 responsibilities, and prescribes procedures for the integrated management of natural and cultural
4449 resources on property under DoD control.

4450 The Office of Management and Budget considers funding for the preparation and
4451 implementation of this INRMP, as required by the Sikes Act, to be a high priority; however,
4452 the reality is that not all the projects and programs identified in this INRMP will receive
4453 immediate funding. As such, these programs and projects have been placed into four priority-
4454 based categories:

- 4455 • Priority 0 – Day-to-day recurring projects
- 4456 • Priority 1 – High priority projects
- 4457 • Priority 2 – Medium importance projects
- 4458 • Priority 3 – Low importance projects.

4459 The prioritization of the projects is based on need, and need is based on a project’s importance in
4460 moving the natural resources management program closer toward successfully achieving its goal.
4461 DoDI 4715.03 defines recurring and non-recurring conservation requirements as follows:

4462 **Table 10-1. Recurring and Non-recurring Conservation Requirements**

Priority 0: Recurring Natural Resources Conservation Management Requirements
<p>a. Administrative, personnel, and other costs associated with managing the DoD Natural Resources Conservation Program that are necessary to meet applicable compliance requirements in federal and state laws, regulations, EOs, and DoD policies, or in direct support of the military mission.</p> <p>b. DoD components shall give priority to recurring natural resources conservation management requirements associated with the operation of facilities, installations, and deployed weapons systems. These activities include day-to-day costs of sustaining an effective natural resources management program, and annual requirements, including manpower, training, supplies, permits, fees, testing and monitoring, sampling and analysis, reporting and recordkeeping, maintenance of natural resources conservation equipment, and compliance self-assessments.</p>
Priority 1 (High): Non-Recurring Natural Resources Management Requirements. Current Compliance.
<p>Includes installation projects and activities to support:</p> <p>a. Installations currently out of compliance (e.g., received an enforcement action from an authorized federal or state agency or local authority).</p> <p>b. Signed compliance agreement or consent order.</p> <p>c. Meeting requirements with applicable federal and state regulations, standards, EOs, or DoD policies.</p> <p>d. Immediate and essential maintenance of operational integrity or military mission sustainment.</p> <p>e. Projects or activities that will be out of compliance if not implemented in the current program year including the following:</p>

<p>Priority 1 (High): Non-Recurring Natural Resources Management Requirements. Current Compliance (continued)</p> <ul style="list-style-type: none"> i. Environmental analyses for natural resources conservation projects and monitoring and studies required to assess and mitigate potential impacts of the military mission on conservation resources. ii. Planning documentation, master plans, compatible development planning, and INRMPs. iii. Natural resources planning-level surveys. iv. Reasonable and prudent measures included in incidental take statements of Biological Opinions; biological assessments; surveys; monitoring; reporting of assessment results; or habitat protection for listed, at-risk, and candidate species so that proposed or continuing actions can be modified. v. Mitigation to meet existing regulatory permit conditions or written agreements. vi. Non-point source pollution or watershed management studies or actions needed to meet compliance dates cited in approved state coastal non-point source pollution control plans, as required to meet consistency determinations consistent with Coastal Zone Management. vii. Wetlands delineations critical for the prevention of adverse impacts on wetlands, so that continuing actions can be modified to ensure mission continuity. <p>Compliance with missed deadlines established in DoD-executed agreements.</p>
<p>Priority 2 (Medium): Non-Recurring Natural Resources Management Requirements. Maintenance Requirements.</p> <p>Includes those projects and activities needed to meet an established deadline beyond the current program year and maintain compliance. Examples include the following:</p> <ul style="list-style-type: none"> a. Compliance with future deadlines. b. Conservation, GIS mapping, and data management to comply with federal, state, and local regulations; EOs; and DoD policy. c. Efforts undertaken in accordance with non-deadline specific compliance requirements of leadership initiatives. d. Wetlands enhancement to minimize wetlands loss and enhance existing degraded wetlands. e. Conservation recommendations in biological opinions issued pursuant to the ESA.
<p>Priority 3 (Low): Non-Recurring Natural Resources Management Requirements. Enhancement Actions Beyond Compliance.</p> <p>Includes those projects and activities that enhance conservation resources or the integrity of the installation’s mission, or are needed to address overall environmental goals and objectives, but are not specifically required by law, regulation, or EO, and are not of an immediate nature. Examples include:</p> <ul style="list-style-type: none"> a. Community outreach activities, such as International Migratory Bird Day, Earth Day, National Public Lands Day, Pollinator Week, and Arbor Day activities. b. Educational and public awareness projects, such as interpretive displays, oral histories, Watchable Wildlife areas, nature trails, wildlife checklists, and conservation teaching materials. c. Restoration or enhancement of natural resources when no specific compliance requirement dictates a course, or timing of action. d. Management and execution of volunteer and partnership programs.

Table 10-2. FY 2022 Project Implementation Table

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 1.1	CATS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS-SC	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 2.1	GTS-SC	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.2	CATS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	CATS-M	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS-SC	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.3	CATS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	CATS-M	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS-SC	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 6.1	CATS	Remain members of the Lower Platter River Corridor Alliance in order to coordinate efforts with surrounding areas, receive LIDAR data and assistance with management strategies.	0	Reoccurring	In-house
NRP 2.1	CATS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.1	CATS	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 4.2	GTS-SC	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 1.4	CATS	Continue to conduct biological monitoring of chutes as levee mitigation through the University of Nebraska and timelapse photography produced by Platte Basin Timelapse.	0	Reoccurring	Contract
FWM 1.4	CATS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 3.3	GTS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 1.4	CATS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 3.3	GTS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 1.4	CATS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 3.3	GTS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 1.5	CATS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 2.4	CATS-M	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 3.4	GTS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 4.4	GTS-SC	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 1.2	CATS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 2.2	CATS-M	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 3.2	GTS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 4.2	GTS-SC	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 1.4	CATS	Conduct a deer population survey.	0	Reoccurring	In-house
OR 1.1	CATS	Monitor usage and harvest levels of outdoor recreation program through RecAccess.	2	Reoccurring	Contract
OR 1.1	CATS	Conduct hunting seasons to maintain and control healthy populations of white-tailed deer and other game species.	0	Reoccurring	In-house
OR 1.1	CATS	Provide outdoor recreation opportunities to soldiers, employees, and family members in the form of hunting, fishing, trapping, bird watching, mushroom gathering, etc.	0	Reoccurring	In-house
OR 1.2	CATS	Continue Ashland School environmental learning activities	0	Reoccurring	In-house
CLE 1.2	CATS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 2.1	CATS-M	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 3.1	GTS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 4.1	GTS-SC	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 3.1	GTS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 4.1	GTS-SC	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 2.1	CATS-M	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 1.3	CATS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 2.3	CATS-M	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 3.3	GTS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 4.3	GTS-SC	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Conduct a T&E species planning level survey.	0	One Time	Contract
TE 2.1	CATS-M	Conduct a T&E species planning level survey.	0	One Time	Contract
TE 3.1	GTS	Conduct a T&E species planning level survey.	0	One Time	Contract
TE 4.1	GTS-SC	Conduct a T&E species planning level survey.	0	One Time	Contract
TE 1.1	CATS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 2.1	CATS-M	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 3.1	GTS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 4.1	GTS-SC	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
WRP 1.1	CATS	Continue to conduct routine water quality analyses on all water bodies within the site boundaries to ensure that water quality standards comply with the standards set by the CWA and safe drinking water act.	0	Reoccurring	In-house
WRP 1.1	CATS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 2.1	CATS-M	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 3.1	GTS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 4.1	GTS-SC	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 1.1	CATS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WRP 2.1	CATS-M	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 4.1	GTS-SC	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Maintain water monitoring program developed and administered by the USGS that aims to monitor, protect, and improve water quality.	2	Reoccurring	In-house
WRP 3.1	GTS	Identify and restore degraded aquatic habitats and prevent degradation of water quality.	2	Reoccurring	In-house
WP 1.5	CATS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 2.5	CATS-M	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 3.5	GTS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 4.5	GTS-SC	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 1.2	CATS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 2.2	CATS-M	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 3.2	GTS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 4.2	GTS-SC	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 1.3	CATS	Monitor the East Chute for sediment nutrient exchange, vegetation, soil, water quality, erosion, and wildlife usage. The monitoring should be conducted twice per year along established transects.	0	Reoccurring	In-house
WP 2.3	CATS-M	Monitor Johnson Creek for vegetation, soil, water quality, erosion and wildlife usage.	0	Reoccurring	In-house
WP 1.4	CATS	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS.	0	Reoccurring	In-house
WP 2.4	CATS-M	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS-M.	0	Reoccurring	In-house
WP 1.5	CATS	Conduct a wetland planning level survey.	0	One Time	Contract
WP 2.5	CATS-M	Conduct a wetland planning level survey.	0	One Time	Contract
WP 3.5	GTS	Conduct a wetland planning level survey.	0	One Time	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.5	GTS-SC	Conduct a wetland planning level survey.	0	One Time	Contract
WP 1.2	CATS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions.	0	Reoccurring	In-House
WP 2.2	CATS-M	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions.	0	Reoccurring	In-House
WP 3.2	GTS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions.	0	Reoccurring	In-house
WP 4.2	GTS-SC	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions.	0	Reoccurring	In-house
GM 1.1	CATS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 2.1	CATS-M	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 3.1	GTS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 1.1	CATS	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 2.1	CATS-M	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 1.1	CATS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 2.1	CATS-M	Remove dead timber with potential safety risk.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
GM 3.1	GTS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 1.1	CATS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 2.1	CATS-M	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 3.1	GTS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 1.1	CATS	Conduct soil planning level surveys to identify soil types	2	One Time	Contract
FGM 1.1	CATS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 3.1	GTS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Flag important prairie areas prior to training exercises near the prairie area.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Plan off-road vehicle courses and any improvements to conserve identified critical native prairie habitat.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Create and maintain a vegetative cover database with information from biological surveys.	0	Reoccurring	In-house
FGM 1.1	CATS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 3.1	GTS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 2.2	CATS-M	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 3.2	GTS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Continue to create a nature trail adjacent to Turner Lake campground that includes approximately 10 acres of native prairie restoration.	3	One Time	In-house
FGM 1.2	CATS	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One Time	In-house
FGM 2.2	CATS-M	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One Time	In-house
FGM 3.2	GTS	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One Time	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WFM 1.1	CATS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 2.1	CATS-M	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 3.1	GTS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 4.1	GTS-SC	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
AG 1.1	CATS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 2.1	CATS-M	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 3.1	GTS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
AG 4.1	GTS-SC	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 1.2	CATS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 2.2	CATS-M	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 3.2	GTS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 4.2	GTS-SC	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 1.2	CATS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 2.2	CATS-M	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 3.2	GTS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 4.2	GTS-SC	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
IPM 1.1	CATS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 2.1	CATS-M	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 3.1	GTS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
IPM 4.1	GTS-SC	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 1.2	CATS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 2.2	CATS-M	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 3.2	GTS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 4.2	GTS-SC	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 1.1	CATS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 2.1	CATS-M	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 3.1	GTS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 4.1	GTS-SC	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
PO 1.1	CATS	Continue the Ashland-Greenwood School Operation Bald Eagle program.	3	Reoccurring	In-house
PO 1.1	CATS	Establish an annual Family Fishing Derby for soldiers, employees, and their family members at Turner Lake. Includes stocking of Turner Lake with rainbow trout.	3	Reoccurring	In-house
PO 1.1	CATS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
PO 3.1	GTS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
GIS 1.1	CATS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
GIS 2.1	CATS-M	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS-M.	0	Reoccurring	In-house
GIS 3.1	GTS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS.	0	Reoccurring	In-house
GIS 4.1	GTS-SC	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS-SC.	0	Reoccurring	In-house
CC 1.1	CATS	Coordinate with NGPC as a source of information on climate change	2	One Time	In-house
CC 2.1	CATS-M	Coordinate with NGPC as a source of information on climate change	2	One Time	In-house
CC 3.1	GTS	Coordinate with NGPC as a source of information on climate change	2	One Time	In-house
CC 4.1	GTS-SC	Coordinate with NGPC as a source of information on climate change	2	One Time	In-house
CC 1.1	CATS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 2.1	CATS-M	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 3.1	GTS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 4.1	GTS-SC	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house

Table 10-3. FY 2023 Project Implementation Table

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 1.1	CATS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS-SC	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 2.1	GTS-SC	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.2	CATS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	CATS-M	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS-SC	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.3	CATS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	CATS-M	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS-SC	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 6.1	CATS	Remain members of the Lower Platter River Corridor Alliance in order to coordinate efforts with surrounding areas, receive LIDAR data, and assistance with management strategies.	0	Reoccurring	In-house
NRP 2.1	CATS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.1	CATS	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 4.2	GTS-SC	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 1.4	CATS	Continue to conduct biological monitoring of chutes as levee mitigation through the University of Nebraska and timelapse photography produced by Platte Basin Timelapse.	0	Reoccurring	Contract
FWM 1.4	CATS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 3.3	GTS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 1.4	CATS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 3.3	GTS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 1.4	CATS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 3.3	GTS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 1.5	CATS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 2.4	CATS-M	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 3.4	GTS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 4.4	GTS-SC	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 1.2	CATS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 2.2	CATS-M	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 3.2	GTS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 4.2	GTS-SC	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 1.4	CATS	Conduct a deer population survey.	0	Reoccurring	In-house
OR 1.1	CATS	Monitor usage and harvest levels of outdoor recreation program through RecAccess.	2	Reoccurring	Contract
OR 1.1	CATS	Conduct hunting seasons to maintain and control healthy populations of white-tailed deer and other game species.	0	Reoccurring	In-house
OR 1.1	CATS	Provide outdoor recreation opportunities to soldiers, employees, and family members in the form of hunting, fishing, trapping, bird watching, mushroom gathering, etc.	0	Reoccurring	In-house
OR 1.2	CATS	Continue Ashland School environmental learning activities	0	Reoccurring	In-house
CLE 1.2	CATS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 2.1	CATS-M	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 3.1	GTS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 4.1	GTS-SC	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 3.1	GTS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 4.1	GTS-SC	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 2.1	CATS-M	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 1.3	CATS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 2.3	CATS-M	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 3.3	GTS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 4.3	GTS-SC	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 2.1	CATS-M	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 3.1	GTS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 4.1	GTS-SC	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
WRP 1.1	CATS	Continue to conduct routine water quality analyses on all water bodies within the site boundaries to ensure that water quality standards comply with the standards set by the CWA and safe drinking water act.	0	Reoccurring	In-house
WRP 1.1	CATS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 2.1	CATS-M	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 3.1	GTS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 4.1	GTS-SC	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 1.1	CATS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 2.1	CATS-M	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 4.1	GTS-SC	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WRP 3.1	GTS	Maintain water monitoring program developed and administered by the USGS that aims to monitor, protect, and improve water quality.	2	Reoccurring	In-house
WRP 3.1	GTS	Identify and restore degraded aquatic habitats and prevent degradation of water quality.	2	Reoccurring	In-house
WP 1.5	CATS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 2.5	CATS-M	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 3.5	GTS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 4.5	GTS-SC	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 1.2	CATS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 2.2	CATS-M	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 3.2	GTS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.2	GTS-SC	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 1.3	CATS	Monitor the East Chute for sediment nutrient exchange, vegetation, soil, water quality, erosion, and wildlife usage. The monitoring should be conducted twice per year along established transects.	0	Reoccurring	In-house
WP 2.3	CATS-M	Monitor Johnson Creek for vegetation, soil, water quality, erosion, and wildlife usage.	0	Reoccurring	In-house
WP 1.4	CATS	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS.	0	Reoccurring	In-house
WP 2.4	CATS-M	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS-M.	0	Reoccurring	In-house
WP 1.2	CATS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 2.2	CATS-M	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 3.2	GTS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.2	GTS-SC	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house
GM 1.1	CATS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 2.1	CATS-M	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 3.1	GTS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 1.1	CATS	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 2.1	CATS-M	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 1.1	CATS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 2.1	CATS-M	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 3.1	GTS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 1.1	CATS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 2.1	CATS-M	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 3.1	GTS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
FGM 1.1	CATS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 3.1	GTS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Flag important prairie areas prior to training exercises near the prairie area.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Plan off-road vehicle courses and any improvements to conserve identified critical native prairie habitat.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Create and maintain a vegetative cover database with information from biological surveys.	0	Reoccurring	In-house
FGM 1.1	CATS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 3.1	GTS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 2.2	CATS-M	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 3.2	GTS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 4.2	GTS-SC	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Conduct a vegetation planning level survey	0	One-time	Contract
FGM 2.2	CATS-M	Conduct a vegetation planning level survey	0	One-time	Contract
FGM 3.2	GTS	Conduct a vegetation planning level survey	0	One-time	Contract
FGM 4.2	GTS-SC	Conduct a vegetation planning level survey	0	One-time	Contract
WFM 1.1	CATS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 2.1	CATS-M	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 3.1	GTS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 4.1	GTS-SC	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
AG 1.1	CATS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
AG 2.1	CATS-M	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 3.1	GTS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 4.1	GTS-SC	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 1.2	CATS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 2.2	CATS-M	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 3.2	GTS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 4.2	GTS-SC	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 1.2	CATS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 2.2	CATS-M	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 3.2	GTS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 4.2	GTS-SC	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
IPM 1.1	CATS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 2.1	CATS-M	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 3.1	GTS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 4.1	GTS-SC	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 1.2	CATS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 2.2	CATS-M	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 3.2	GTS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 4.2	GTS-SC	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 1.1	CATS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 2.1	CATS-M	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 3.1	GTS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 4.1	GTS-SC	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
PO 1.1	CATS	Continue the Ashland-Greenwood School Operation Bald Eagle program.	3	Reoccurring	In-house
PO 1.1	CATS	Establish an annual Family Fishing Derby for soldiers, employees, and their family members at Turner Lake. Includes stocking of Turner Lake with rainbow trout.	3	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
PO 1.1	CATS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
PO 3.1	GTS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
GIS 1.1	CATS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS.	0	Reoccurring	In-house
GIS 2.1	CATS-M	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS-M.	0	Reoccurring	In-house
GIS 3.1	GTS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS.	0	Reoccurring	In-house
GIS 4.1	GTS-SC	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS-SC.	0	Reoccurring	In-house
CC 1.1	CATS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 2.1	CATS-M	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 3.1	GTS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 4.1	GTS-SC	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house

Table 10-4. FY 2024 Project Implementation Table

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 1.1	CATS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS-SC	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 2.1	GTS-SC	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.2	CATS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	CATS-M	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS-SC	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.3	CATS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	CATS-M	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS-SC	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 6.1	CATS	Remain members of the Lower Platter River Corridor Alliance in order to coordinate efforts with surrounding areas, and receive LIDAR data and assistance with management strategies.	0	Reoccurring	In-house
NRP 2.1	CATS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.1	CATS	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 4.2	GTS-SC	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 1.4	CATS	Continue to conduct biological monitoring of chutes as levee mitigation through the University of Nebraska and timelapse photography produced by Platte Basin Timelapse.	0	Reoccurring	Contract
FWM 1.4	CATS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 3.3	GTS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 1.4	CATS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 3.3	GTS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 1.4	CATS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 3.3	GTS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 1.5	CATS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 2.4	CATS-M	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 3.4	GTS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 4.4	GTS-SC	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 1.2	CATS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 2.2	CATS-M	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 3.2	GTS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 4.2	GTS-SC	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 1.4	CATS	Conduct a deer population survey.	0	Reoccurring	In-house
OR 1.1	CATS	Monitor usage and harvest levels of outdoor recreation program through RecAccess.	2	Reoccurring	Contract
OR 1.1	CATS	Conduct hunting seasons to maintain and control healthy populations of white-tailed deer and other game species.	0	Reoccurring	In-house
OR 1.1	CATS	Provide outdoor recreation opportunities to soldiers, employees, and family members in the form of hunting, fishing, trapping, bird watching, mushroom gathering, etc.	0	Reoccurring	In-house
OR 1.2	CATS	Continue Ashland School environmental learning activities	0	Reoccurring	In-house
CLE 1.2	CATS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 2.1	CATS-M	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 3.1	GTS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 4.1	GTS-SC	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 3.1	GTS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 4.1	GTS-SC	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 2.1	CATS-M	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 1.3	CATS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 2.3	CATS-M	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 3.3	GTS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 4.3	GTS-SC	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 2.1	CATS-M	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 3.1	GTS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 4.1	GTS-SC	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
WRP 1.1	CATS	Continue to conduct routine water quality analyses on all water bodies within the site boundaries to ensure that water quality standards comply with the standards set by the CWA and safe drinking water act.	0	Reoccurring	In-house
WRP 1.1	CATS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 2.1	CATS-M	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 3.1	GTS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 4.1	GTS-SC	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 1.1	CATS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 2.1	CATS-M	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 4.1	GTS-SC	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WRP 3.1	GTS	Maintain water monitoring program developed and administered by the USGS that aims to monitor, protect, and improve water quality.	2	Reoccurring	In-house
WRP 3.1	GTS	Identify and restore degraded aquatic habitats and prevent degradation of water quality.	2	Reoccurring	In-house
WP 1.5	CATS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 2.5	CATS-M	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 3.5	GTS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 4.5	GTS-SC	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 1.2	CATS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 2.2	CATS-M	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 3.2	GTS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 4.2	GTS-SC	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 1.3	CATS	Monitor the East Chute for sediment nutrient exchange, vegetation, soil, water quality, erosion, and wildlife usage. The monitoring should be conducted twice per year along established transects.	0	Reoccurring	In-house
WP 2.3	CATS-M	Monitor Johnson Creek for vegetation, soil, water quality, erosion and wildlife usage.	0	Reoccurring	In-house
WP 1.4	CATS	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS.	0	Reoccurring	In-house
WP 2.4	CATS-M	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS-M.	0	Reoccurring	In-house
WP 1.2	CATS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 2.2	CATS-M	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 3.2	GTS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house
WP 4.2	GTS-SC	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house
GM 1.1	CATS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 2.1	CATS-M	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 3.1	GTS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 1.1	CATS	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 2.1	CATS-M	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 1.1	CATS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 2.1	CATS-M	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 3.1	GTS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 1.1	CATS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 2.1	CATS-M	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
GM 3.1	GTS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
FGM 1.1	CATS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 3.1	GTS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Flag important prairie areas prior to training exercises near the prairie area.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Plan off-road vehicle courses and any improvements to conserve identified critical native prairie habitat.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Create and maintain a vegetative cover database with information from biological surveys.	0	Reoccurring	In-house
FGM 1.1	CATS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 3.1	GTS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 2.2	CATS-M	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 3.2	GTS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
WFM 1.1	CATS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 2.1	CATS-M	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 3.1	GTS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 4.1	GTS-SC	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
AG 1.1	CATS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
AG 2.1	CATS-M	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 3.1	GTS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 4.1	GTS-SC	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 1.2	CATS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 2.2	CATS-M	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 3.2	GTS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 4.2	GTS-SC	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 1.2	CATS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 2.2	CATS-M	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 3.2	GTS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
AG 4.2	GTS-SC	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
IPM 1.1	CATS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 2.1	CATS-M	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 3.1	GTS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 4.1	GTS-SC	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 1.2	CATS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 2.2	CATS-M	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 3.2	GTS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 4.2	GTS-SC	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 1.1	CATS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 2.1	CATS-M	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 3.1	GTS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 4.1	GTS-SC	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
PO 1.1	CATS	Continue the Ashland-Greenwood School Operation Bald Eagle program.	3	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
PO 1.1	CATS	Establish an annual Family Fishing Derby for soldiers, employees, and their family members at Turner Lake. Includes stocking of Turner Lake with rainbow trout.	3	Reoccurring	In-house
PO 1.1	CATS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
PO 3.1	GTS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
GIS 1.1	CATS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS.	0	Reoccurring	In-house
GIS 2.1	CATS-M	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS-M.	0	Reoccurring	In-house
GIS 3.1	GTS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS.	0	Reoccurring	In-house
GIS 4.1	GTS-SC	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS-SC.	0	Reoccurring	In-house
CC 1.1	CATS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 2.1	CATS-M	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 3.1	GTS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 4.1	GTS-SC	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house

Table 10-5. FY 2025 Project Implementation Table

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 1.1	CATS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS-SC	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 2.1	GTS-SC	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.2	CATS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	CATS-M	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS-SC	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.3	CATS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	CATS-M	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS-SC	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 6.1	CATS	Remain members of the Lower Platter River Corridor Alliance in order to coordinate efforts with surrounding areas, receive LIDAR data, and assistance with management strategies.	0	Reoccurring	In-house
NRP 2.1	CATS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.1	CATS	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 4.2	GTS-SC	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 1.4	CATS	Continue to conduct biological monitoring of chutes as levee mitigation through the University of Nebraska and timelapse photography produced by Platte Basin Timelapse.	0	Reoccurring	Contract
FWM 1.4	CATS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 3.3	GTS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 1.4	CATS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 3.3	GTS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 1.4	CATS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 3.3	GTS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.5	CATS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 2.4	CATS-M	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 3.4	GTS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 4.4	GTS-SC	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 1.2	CATS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 2.2	CATS-M	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 3.2	GTS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 4.2	GTS-SC	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 1.4	CATS	Conduct a deer population survey.	0	Reoccurring	In-house
OR 1.1	CATS	Monitor usage and harvest levels of outdoor recreation program through RecAccess.	2	Reoccurring	Contract
OR 1.1	CATS	Conduct hunting seasons to maintain and control healthy populations of white-tailed deer and other game species.	0	Reoccurring	In-house
OR 1.1	CATS	Provide outdoor recreation opportunities to soldiers, employees, and family members in the form of hunting, fishing, trapping, bird watching, mushroom gathering, etc.	0	Reoccurring	In-house
OR 1.2	CATS	Continue Ashland School environmental learning activities	0	Reoccurring	In-house
CLE 1.2	CATS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 2.1	CATS-M	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 3.1	GTS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 4.1	GTS-SC	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 3.1	GTS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 4.1	GTS-SC	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 2.1	CATS-M	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 1.3	CATS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 2.3	CATS-M	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 3.3	GTS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 4.3	GTS-SC	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 2.1	CATS-M	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 3.1	GTS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 4.1	GTS-SC	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
WRP 1.1	CATS	Continue to conduct routine water quality analyses on all water bodies within the site boundaries to ensure that water quality standards comply with the standards set by the CWA and safe drinking water act.	0	Reoccurring	In-house
WRP 1.1	CATS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 2.1	CATS-M	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 3.1	GTS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 4.1	GTS-SC	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 1.1	CATS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 2.1	CATS-M	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 4.1	GTS-SC	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WRP 3.1	GTS	Maintain water monitoring program developed and administered by the USGS that aims to monitor, protect, and improve water quality.	2	Reoccurring	In-house
WRP 3.1	GTS	Identify and restore degraded aquatic habitats and prevent degradation of water quality.	2	Reoccurring	In-house
WP 1.5	CATS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 2.5	CATS-M	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 3.5	GTS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 4.5	GTS-SC	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 1.2	CATS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 2.2	CATS-M	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 3.2	GTS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.2	GTS-SC	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 1.3	CATS	Monitor the East Chute for sediment nutrient exchange, vegetation, soil, water quality, erosion, and wildlife usage. The monitoring should be conducted twice per year along established transects.	0	Reoccurring	In-house
WP 2.3	CATS-M	Monitor Johnson Creek for vegetation, soil, water quality, erosion and wildlife usage.	0	Reoccurring	In-house
WP 1.4	CATS	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS.	0	Reoccurring	In-house
WP 2.4	CATS-M	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS-M.	0	Reoccurring	In-house
WP 1.2	CATS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 2.2	CATS-M	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 3.2	GTS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.2	GTS-SC	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house
GM 1.1	CATS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 2.1	CATS-M	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 3.1	GTS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 1.1	CATS	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 2.1	CATS-M	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 1.1	CATS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 2.1	CATS-M	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 3.1	GTS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 1.1	CATS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 2.1	CATS-M	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 3.1	GTS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
FGM 1.1	CATS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 3.1	GTS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Flag important prairie areas prior to training exercises near the prairie area.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Plan off-road vehicle courses and any improvements to conserve identified critical native prairie habitat.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Create and maintain a vegetative cover database with information from biological surveys.	0	Reoccurring	In-house
FGM 1.1	CATS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 3.1	GTS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 2.2	CATS-M	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 3.2	GTS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 4.2	GTS-SC	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One-time	In-house
FGM 2.2	CATS-M	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One-time	In-house
FGM 3.2	GTS	Maintain and manage native grasslands on a three-year cycle to promote diversity, optimize wildlife habitat, and reduce invasive species and woody plants.	3	One-time	In-house
WFM 1.1	CATS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 2.1	CATS-M	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 3.1	GTS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 4.1	GTS-SC	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
AG 1.1	CATS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
AG 2.1	CATS-M	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 3.1	GTS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 4.1	GTS-SC	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 1.2	CATS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 2.2	CATS-M	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 3.2	GTS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 4.2	GTS-SC	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 1.2	CATS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 2.2	CATS-M	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 3.2	GTS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 4.2	GTS-SC	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
IPM 1.1	CATS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 2.1	CATS-M	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 3.1	GTS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 4.1	GTS-SC	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 1.2	CATS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 2.2	CATS-M	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 3.2	GTS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 4.2	GTS-SC	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 1.1	CATS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 2.1	CATS-M	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 3.1	GTS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 4.1	GTS-SC	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
PO 1.1	CATS	Continue the Ashland-Greenwood School Operation Bald Eagle program.	3	Reoccurring	In-house
PO 1.1	CATS	Establish an annual Family Fishing Derby for soldiers, employees, and their family members at Turner Lake. Includes stocking of Turner Lake with rainbow trout.	3	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
PO 1.1	CATS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
PO 3.1	GTS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
GIS 1.1	CATS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS.	0	Reoccurring	In-house
GIS 2.1	CATS-M	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS-M.	0	Reoccurring	In-house
GIS 3.1	GTS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS.	0	Reoccurring	In-house
GIS 4.1	GTS-SC	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS-SC.	0	Reoccurring	In-house
CC 1.1	CATS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 2.1	CATS-M	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 3.1	GTS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 4.1	GTS-SC	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house

Table 10-6. FY 2026 Project Implementation Table

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 1.1	CATS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Obtain relevant training necessary for resource managers to develop an understanding of an ecosystem management approach to natural resources.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	GTS-SC	Conduct a formal meeting and internal review with installation operation and management organizations on an annual basis to ensure that there is an understanding of goals, objectives, and projects presented in this INRMP.	0	Reoccurring	In-house
NRP 2.1	CATS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	CATS-M	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.1	GTS	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
NRP 2.1	GTS-SC	Conduct annual review with USFWS and NGPC as part of tripartite agreement.	0	Reoccurring	In-house
NRP 2.2	CATS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	CATS-M	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.2	GTS-SC	Utilize internal and external stakeholder comments to update the INRMP.	0	Reoccurring	In-house
NRP 2.3	CATS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	CATS-M	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 2.3	GTS-SC	Conduct an internal and external evaluation of the INRMP annually to determine if an update or revision is necessary based on changes in environmental conditions or the mission.	0	Reoccurring	In-house
NRP 6.1	CATS	Remain members of the Lower Platter River Corridor Alliance in order to coordinate efforts with surrounding areas, and receive LIDAR data and assistance with management strategies.	0	Reoccurring	In-house
NRP 2.1	CATS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	CATS-M	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house
NRP 1.1	GTS-SC	Include consideration of management that incorporates an ecosystem approach in direction provided by the environmental office on all land management objectives.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 1.1	CATS	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 4.2	GTS-SC	Monitor and protect active bald eagle nesting areas and communicate locations or occurrences of eagle nests to NEARNG command and staff.	0	Reoccurring	In-house
FWM 1.4	CATS	Continue to conduct biological monitoring of chutes as levee mitigation through the University of Nebraska and timelapse photography produced by Platte Basin Timelapse.	0	Reoccurring	Contract
FWM 1.4	CATS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 3.3	GTS	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Continue to monitor wildlife via trail camera program.	0	Reoccurring	In-house
FWM 1.4	CATS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 3.3	GTS	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Communicate results of biological surveys during Task Force meetings.	0	Reoccurring	In-house
FWM 1.4	CATS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 2.3	CATS-M	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 3.3	GTS	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 4.3	GTS-SC	Develop a comprehensive database to document the results of the biological surveys and update the database with the results of the five-year biological surveys.	0	Reoccurring	In-house
FWM 1.5	CATS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FWM 2.4	CATS-M	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 3.4	GTS	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 4.4	GTS-SC	Do not disturb migratory bird nest sites (with the exception of Canada geese) until offspring have been fledged, any required permits are obtained, and/or consultation has been completed.	0	Reoccurring	In-house
FWM 1.2	CATS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 2.2	CATS-M	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 3.2	GTS	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 4.2	GTS-SC	Continue to conduct breeding bird surveys.	2	Reoccurring	In-house
FWM 1.4	CATS	Conduct a deer population survey.	0	Reoccurring	In-house
OR 1.1	CATS	Monitor usage and harvest levels of outdoor recreation program through RecAccess.	2	Reoccurring	Contract
OR 1.1	CATS	Conduct hunting seasons to maintain and control healthy populations of white-tailed deer and other game species.	0	Reoccurring	In-house
OR 1.1	CATS	Provide outdoor recreation opportunities to soldiers, employees, and family members in the form of hunting, fishing, trapping, bird watching, mushroom gathering, etc.	0	Reoccurring	In-house
OR 1.2	CATS	Continue Ashland School environmental learning activities	0	Reoccurring	In-house
CLE 1.2	CATS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 2.1	CATS-M	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 3.1	GTS	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
CLE 4.1	GTS-SC	Contact NGPC staff or the County Sherriff for assistance in natural resource regulation enforcement as needed.	0	Reoccurring	In-house
TE 1.1	CATS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
		information is released by the USFWS or NGPC or is gathered as part of a biological survey.			
TE 2.1	CATS-M	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 3.1	GTS	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 4.1	GTS-SC	Continually monitor the presence of threatened and endangered species and create/revise the database of threatened and endangered species with potential to occur on site whenever new information is released by the USFWS or NGPC or is gathered as part of a biological survey.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 2.1	CATS-M	Continue to monitor for piping plover and least tern.	0	Reoccurring	In-house
TE 1.1	CATS	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 2.1	CATS-M	Continue to monitor for NLEB.	0	Reoccurring	Contract
TE 1.3	CATS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 2.3	CATS-M	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 3.3	GTS	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract
TE 4.3	GTS-SC	Continue to work with local, state, and federal entities to reduce and/or mitigate potential impacts from aviation flights to Whooping crane migration activities.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
TE 1.1	CATS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 2.1	CATS-M	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 3.1	GTS	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
TE 4.1	GTS-SC	Develop and implement an education program that communicates locations or occurrences of threatened and endangered species for NEARNG personnel.	0	Reoccurring	In-House
WRP 1.1	CATS	Continue to conduct routine water quality analyses on all water bodies within the site boundaries to ensure that water quality standards comply with the standards set by the CWA and safe drinking water act.	0	Reoccurring	In-house
WRP 1.1	CATS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 2.1	CATS-M	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 3.1	GTS	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 4.1	GTS-SC	Maintain native vegetative buffers around water sources, providing habitat for instream and upland species and supporting biodiversity.	0	Reoccurring	In-house
WRP 1.1	CATS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 2.1	CATS-M	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 3.1	GTS	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house
WRP 4.1	GTS-SC	Reduce or eliminate pesticide, fertilizer, and other pollutant use and limit activities adjacent wetland/waterway areas.	2	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WRP 3.1	GTS	Maintain water monitoring program developed and administered by the USGS that aims to monitor, protect, and improve water quality.	2	Reoccurring	In-house
WRP 3.1	GTS	Identify and restore degraded aquatic habitats and prevent degradation of water quality.	2	Reoccurring	In-house
WP 1.5	CATS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 2.5	CATS-M	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 3.5	GTS	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 4.5	GTS-SC	Update wetland data with information from biological surveys.	0	Reoccurring	In-house
WP 1.2	CATS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 2.2	CATS-M	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 3.2	GTS	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
WP 4.2	GTS-SC	Maintain 50 to 100-foot buffer zones around wetlands where it is determined that a wetland has, or could have, significant habitat value, or where current activities adjacent to wetlands are causing noticeable adverse impacts on the habitat. Activities within buffer zones are limited to those that would cause little or no impact on or disturbance to the wetlands. In cases where established activities already occur within buffers and cannot be reasonably changed, those wetlands are subject to increasing monitoring, and use of BMPs to avoid or minimize impacts.	0	Reoccurring	In-house
WP 1.3	CATS	Monitor the East Chute for sediment nutrient exchange, vegetation, soil, water quality, erosion, and wildlife usage. The monitoring should be conducted twice per year along established transects.	0	Reoccurring	In-house
WP 2.3	CATS-M	Monitor Johnson Creek for vegetation, soil, water quality, erosion and wildlife usage.	0	Reoccurring	In-house
WP 1.4	CATS	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS.	0	Reoccurring	In-house
WP 2.4	CATS-M	Monitor and restore/create wetlands identified in biological surveys to enhance watershed function and value on CATS-M.	0	Reoccurring	In-house
WP 1.2	CATS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 2.2	CATS-M	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-House
WP 3.2	GTS	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions	0	Reoccurring	In-house
WP 4.2	GTS-SC	Develop and implement a training program for NEARNG personnel regarding current wetland regulations and management and the locations of wetlands at the installations to avoid wetland	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
		impacts to the maximum extent possible and mitigate unavoidable impacts on wetland functions			
GM 1.1	CATS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 2.1	CATS-M	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 3.1	GTS	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Continue to repair and maintain trails on the installation as necessary.	0	Reoccurring	In-house
GM 1.1	CATS	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 2.1	CATS-M	Control poison ivy near high-use training areas in accordance with the PMP.	0	Reoccurring	In-house
GM 1.1	CATS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 2.1	CATS-M	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 3.1	GTS	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Remove dead timber with potential safety risk.	0	Reoccurring	In-house
GM 1.1	CATS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 2.1	CATS-M	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 3.1	GTS	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
GM 4.1	GTS-SC	Assist in evaluating the impacts of military training and proposed construction on natural resources.	0	Reoccurring	In-house
FGM 1.1	CATS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 3.1	GTS	Continually monitor the presence of eastern red cedar, thorny locust, and other invasive trees and utilize mechanical, chemical, and/or prescribed fire to control.	0	Reoccurring	In-house/Contract
FGM 4.2	GTS-SC	Flag important prairie areas prior to training exercises near the prairie area.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Plan off-road vehicle courses and any improvements to conserve identified critical native prairie habitat.	1	Reoccurring	In-house
FGM 4.2	GTS-SC	Create and maintain a vegetative cover database with information from biological surveys.	0	Reoccurring	In-house
FGM 1.1	CATS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 2.1	CATS-M	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 3.1	GTS	Implement management strategies outlined in the Forestry Management Plan as well as proposed phasing plans for removal of existing trees in poor health and establishment of new plantings.	2	Reoccurring	In-house/Contract
FGM 1.2	CATS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 2.2	CATS-M	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
FGM 3.2	GTS	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
FGM 4.2	GTS-SC	Implement goals and objectives outlined in the Prairie/Tract Management Plans including the creation of a shifting mosaic of habitat types that include native prairie, agricultural areas, and hay/rest cycles that provide diverse training opportunities and habitat availability for native wildlife.	2	Reoccurring	In-house/Contract
WFM 1.1	CATS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 2.1	CATS-M	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 3.1	GTS	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
WFM 4.1	GTS-SC	Implement static rotation of controlled burns to help reduce risk of wildland fire, promote diverse native vegetation, and help reduce invasive species and woody plants as outlined in the Integrated Wildland Fire Management Plan.	2	Reoccurring	In-house
AG 1.1	CATS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 2.1	CATS-M	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 3.1	GTS	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species,	0	Reoccurring	Contract

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
		including nesting periods. Review leases annually to assure contract specifications are being achieved.			
AG 4.1	GTS-SC	Continue hay lease program that establishes leases with local ranchers or farmers that specifies cost, performance requirements, haying schedules, access rules, and avoids adverse impacts to threatened, endangered, and sensitive species, including nesting periods. Review leases annually to assure contract specifications are being achieved.	0	Reoccurring	Contract
AG 1.2	CATS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 2.2	CATS-M	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 3.2	GTS	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 4.2	GTS-SC	Coordinate the responsibility of the lessees for controlling woody vegetation and noxious weeds including small dense patches.	0	Reoccurring	In-house
AG 1.2	CATS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 2.2	CATS-M	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 3.2	GTS	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
AG 4.2	GTS-SC	Implement biological, physical, or chemical controls to reduce woody vegetation under the guidance of county foresters	0	Reoccurring	In-house
IPM 1.1	CATS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 2.1	CATS-M	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 3.1	GTS	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
IPM 4.1	GTS-SC	Implement management practices including monitoring and treatment as recommended in the Integrated Pest Management Plan.	1	Reoccurring	In-house
IPM 1.2	CATS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 2.2	CATS-M	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 3.2	GTS	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 4.2	GTS-SC	Notify adjacent land managers of non-native and invasive plant occurrences and offer to assist in plant removal projects.	3	Reoccurring	In-house
IPM 1.1	CATS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 2.1	CATS-M	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 3.1	GTS	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
IPM 4.1	GTS-SC	Coordinate with state and local regulators to obtain appropriate permits for non-native and invasive plant species control efforts.	0	Reoccurring	In-house
PO 1.1	CATS	Continue the Ashland-Greenwood School Operation Bald Eagle program.	3	Reoccurring	In-house
PO 1.1	CATS	Establish an annual Family Fishing Derby for soldiers, employees, and their family members at Turner Lake. Includes stocking of Turner Lake with rainbow trout.	3	Reoccurring	In-house
PO 1.1	CATS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
PO 3.1	GTS	Partner with local organizations to provide outdoor recreation opportunities to disabled veterans, gold star family members, and other combat veterans.	3	Reoccurring	In-house
GIS 1.1	CATS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS.	0	Reoccurring	In-house

Objective No.	Training Site	Projects	Priority Level	Year	Notes (include actions and dates)
GIS 2.1	CATS-M	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at CATS-M.	0	Reoccurring	In-house
GIS 3.1	GTS	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS.	0	Reoccurring	In-house
GIS 4.1	GTS-SC	Update the Natural Resources GIS database as new data are collected and produce and periodically update GIS maps of natural resources at GTS-SC.	0	Reoccurring	In-house
CC 1.1	CATS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 2.1	CATS-M	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 3.1	GTS	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house
CC 4.1	GTS-SC	Explore ways to address climate change such as considering drought resistant plantings, reducing fuel for fires, and preparing for range shifts in species.	2	Reoccurring	In-house

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APPENDICES

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