

2022 Land Budget Overview

10/6/2021

Platte River Recovery Implementation Program

For More Information Contact: Jason Farnsworth, farnsworthj@headwaterscorp.com (308) 237-5728

Land Budget Overview By Budget Line Item

| Budget Line Item | Description | Estimated Expenditure** |
|------------------|--|-------------------------|
| LP-2 | Adaptive Management Species Habitat Actions* | \$335,309 |
| LP-3 | New Land Acquisitions, LHIE Fees, & Property Taxes | \$850,150 |
| LP-4 | Property Maintenance & Agricultural Operations** | \$165,000 |
| LP-6 | Land Plan Special Advisors | \$20,000 |
| LP-7 | Public Access Management | \$40,000 |
| WPLW-1 | Property Taxes & Maintenance for Water Properties | \$16,850 |

* The LP-2 budget includes \$10,000 for Vegetation Survey on PRRIP grasslands.

** The budget items have been reviewed and approved by the LAC on November ?, 2021.

Budget Overview By Complex

| Complex | Estimated Expenditure | Estimated Income |
|--------------------------|----------------------------------|------------------------------|
| Non-Complex Tracts | \$59,700 | \$21,770 |
| Plum Creek "Complex" | \$53,800 | \$8,550 |
| Cottonwood Ranch Complex | \$62,650 | \$8,360 |
| Elm Creek Complex | \$25,823 | \$15,925 |
| Pawnee Complex | \$46,857 | \$3,773 |
| Fort Kearny Complex | \$68,480 | \$44,645 |
| Minden-Gibbon Complex | \$5,000 | \$0 |
| Clark Island Complex | \$89,440 | \$33,340 |
| Shoemaker Island Complex | \$17,459 | \$43,000 |
| Chapman Complex | \$71,100 | \$37,998 |
| Water Properties | \$16,850 | \$9,125 |
| Total | \$517,159 | \$226,486 |

Budget Priority Areas by Budget Line Item

LP-2 – Adaptive Management Species Habitat Actions: Species habitat priorities are focused on creation and maintenance of suitable complex and non-complex habitat for Program target species. Includes Habitat Enhancement at Tract 2020002 & Chapman Complex

LP-3 – New Land Acquisitions: Land acquisition priorities include identification and acquisition of lands for construction of an additional 60 acres of off-channel sand and water habitat for least tern and piping plover nesting habitat and identification and acquisition of lands that could count towards the First Increment Extension habitat land "plus up" of 1,500 acres.

LP-4 – Property Maintenance & Agricultural Operations: 2020 priorities include maintenance of basic land infrastructure such as facilities, roads, and fences as well as fulfilling basic ownership obligations like noxious weed control and ROW mowing.

LP-6 – Land Plan Special Advisors: Priorities for special advisors include administration of agricultural leases and associated FSA obligations, crop management and marketing, and assistance in cropland conversions.

LP-7 – Public Access Management: Nebraska Game and Parks Commission will manage public access to Program lands.

WPLW-1 – Property Maintenance for Water Properties: 2020 priorities include maintenance of basic land infrastructure such as facilities, roads, and fences as well as fulfilling basic ownership obligations like noxious weed control and ROW mowing.

Property Identification Key:

2008001 – PRRIP Wyoming Property
2008002 - NPPD Cottonwood Ranch
2009001 – PRRIP Fox Tract
2009002 – PRRIP Bartels Tract
2009003 - PRRIP Dyer Tract
2009004 – PRRIP Hostetler Tract
2009005 – PRRIP McCormick Tract
2009006 - PRRIP Stall Tract
2009007 - PRRIP Cook Tract
2009008 - PRRIP Broadfoot Newark Tract
2010001 - PRRIP Morse Tract
2010002 - Broadfoot Kearney South Tract
2010003 – PRRIP Sherrerd/Clark Easement
2010004 – PRRIP Binfield Tract
2011001 - PRRIP East Leaman Tract
2011002 - PRRIP Follmer Alda Tract
2012001 – PRRIP Sullwold Tract
2012002 – PRRIP Johns Tract
2012003 – PRRIP Blessing Tract
2012004 - PRRIP DeBore Tract
2013001 - PRRIP Liehs Tract
2014002 - PRRIP Volentine Tract
2015001 – PRRIP Speidell Tract
2015002 - PRRIP BELF Tract
2015003 – PRRIP Blue Hole East
2018001 – PRRIP Dippel Tract
2019001 – PRRIP Robinson Tract
2020001 – PRRIP Bergren Tract
2020002 - PRRIP Lex Pit Tract
2021001 – PRRIP Meyer Tract

W201602 – PRRIP Lindstrum Tract

W201701 – PRRIP Edlund Tract

W201702 - PRRIP Albrecht Tract

W201703 - PRRIP Lakeside Tract

Personnel Responsibility Key

MH – Malinda Henry (Director of Biological and Ecological Services)

JJ – Jim Jenniges (NPPD)

TT – Tim Tunnell (Senior Land Manager)

ST – Seth Turner (Senior Water Resources Engineer)

KW – Kevin Werbylo (Water Resource Engineer)

| LP-2 | Priority Area: Species Habitat | | Total | % |
|------|---|---|------------------|-------------|
| | Item(s): Maintain Suitable In- and Off-Channel Sand & Water Habitat | Herbicide applications on OCSW peninsulas to maintain bare sand nesting habitat | \$38,500 | 11% |
| | | Maintenance of Predator Exclusion Fencing | \$15,000 | 4% |
| | | Remove Blow Sand from Predator Fences | \$4,000 | 1% |
| | Item(s): Improve Target Species Sand and Water Habitat | Remove large cottonwood trees south of OCSW area | \$25,000 | 7% |
| | | In-channel tree. Cattail, herbicide spraying | \$12,000 | 4% |
| | | Herbicide treatment on south bank to kill vegetation prior to disking | \$21,800 | 7% |
| | | Disking if necessary to provide in-channel vegetation control | \$21,900 | 7% |
| | | Clear downed trees from northern riparian area | \$25,000 | 7% |
| | | Clear Trees, burn & bury pending Mgmt. Agreement | \$30,000 | 9% |
| | Item(s): Maintain Suitable Palustrine Wetland Habitat | Irrigation Well Pumping | \$7,000 | 2% |
| | | Brush, tree, cattail herbicide spraying | \$38,500 | 11% |
| | Item(s): Whooping Crane Grassland / Wet Meadow Habitat | Prescribed Burning | \$70,609 | 21% |
| | | Purchase & installation of native violet plugs | \$6,000 | 2% |
| | | Aboveground Tree Removal in meadow | \$20,000 | 6% |
| | | LP-2 Budget Total | \$335,309 | 100% |
| | | | | |
| LP-3 | Priority Area: Land Acquisitions , LHIE Fees, & Property Taxes | | Total | % |
| | Item(s): Land Acquisition, Property Taxes and Associated Fees | Land interest holding entity (LIHE) | \$65,000 | 8% |
| | | Property Taxes | \$151,400 | 18% |
| | | Land Acquisition Associated Costs | \$16,750 | 2% |
| | | Cottonwood Ranch Sponsorship Agreement | \$17,000 | 2% |
| | | Buy, Lease or Easement (400 acres) | \$600,000 | 71% |
| | | LP-3 Budget Total | \$850,150 | 100% |

| LP-4 | Priority Area: Operations and Maintenance | | Total | % |
|--------|--|--|------------------|-------------|
| | Item(s): <i>Basic Property Maintenance Obligations and Needs</i> | Fence & Road Maintenance | \$53,000 | 32% |
| | | Noxious Weed Control | \$60,500 | 37% |
| | | Mowing | \$19,500 | 12% |
| | | Lodge & Quonset Utilites & maintenance | \$5,600 | 3% |
| | | Cabin Utilites & maintenance | \$3,000 | 2% |
| | | Fenceline Tree Clearing | \$20,000 | 12% |
| | | Electricity for Livestock wells | \$3,400 | 2% |
| | | LP-4 Budget Total | \$165,000 | 100% |
| | | | | |
| WPLW-1 | Priority Area: Water Tract Operations and Maintenance | | Total | % |
| | Item(s): <i>Basic Property Maintenance Obligations and Needs</i> | Fence & Road Maintenance | \$1,000 | 6% |
| | | Noxious Weed Control | \$5,000 | 30% |
| | | Mowing | \$1,000 | 6% |
| | | Electricity for Livestock wells | \$100 | 1% |
| | | Property Taxes | \$9,750 | 58% |
| | | WPLW-1 Budget Total | \$16,850 | 100% |

2022 Non-Complex Properties Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - *Conduct all actions in accordance with Program's good neighbor policy.*

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of non-complex palustrine wetlands and least tern and piping plover use and productivity at off-channel sand and water nesting sites.

Species Habitat Priorities

- * **Maintain Suitable Off-Channel Sand and Water Nesting Habitat** – Apply pre-emergent herbicide on Tracts 2009008, 2010002, 2011001, 2011002 and 2020002 OCSW nesting habitat to prevent vegetation encroachment into nesting areas.
- * **Maintain Suitable Palustrine Wetland Roosting Habitat** – Manage vegetation height in the palustrine wetland areas of Tracts 2012004 and 2013001 to maintain suitable unobstructed view widths for whooping crane roosting.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs including boundary fence signage, road maintenance, and noxious weed control.
- * **Agricultural Operations** – Oversight of crop leases on Tracts 2009008, 2012004 and 2013001 and hay lease on Tract 2011001.
- * **Sand and Gravel Mining Operations** – *Monitor sand and gravel mining operations on Tracts 2009008 and 2011002.*

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: *General*

Item(s): *Land Interest and Tract-Level Restoration and Maintenance Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| NC 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: *Species Habitat*

Item(s): *Maintain Suitable In- and Off-Channel Sand & Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|------------------|--------------------|------------------|------------------|
| NC 2 | Herbicide applications on OCSW peninsulas to maintain bare sand nesting habitat (79 ac) | 4/2022 & 9/2022 | TT | \$30,000 | LP-2 |
| NC 3 | Maintenance of Predator Exclusion Fencing | 1/1/21 - 4/15/21 | TT | \$15,000 | LP-2 |

Priority Area: *Species Habitat*

Item(s): *Maintain Suitable Palustrine Wetland Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------------------------|--------------------|------------------|------------------|
| NC 4 | Irrigation well pumping to augment water level in wetland area of Tract 2013001 | 3/1/22 - 4/15/22 & 10/1/22-11/15/22 | TT | \$3,000 | LP-2 |
| NC5 | Brush, tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$3,500 | LP-2 |

Priority Area: *Species Habitat***Item(s):** *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| NC 6 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| NC 7 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | Annual | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s):** *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------|--------------------|--------------------|------------------|------------------|
| NC 8 | Fence and road maintenance | Annual | TT | \$2,500 | LP-4 |
| NC 9 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$3,000 | LP-4 |
| NC 10 | Mowing | 7/15/22 - 10/15/22 | TT | \$1,500 | LP-4 |
| NC 11 | Tract 2012004 Electricity | 7/15/22 - 10/15/22 | TT | \$1,200 | LP-4 |

Priority Area: Operations and Maintenance**Item(s):** *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|-------------------------------------|--------------|--------------------|------------------|------------------|
| NC 12 | Oversight of grazing and cropland | Annual | TT | N/A | N/A |
| NC 13 | Oversight of sand and gravel mining | Annual | TT | N/A | N/A |

2022 Non-Complex Tracts Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|--|------------------|-----------------------|
| Species Habitat | Maintain Off-Channel Sand & Water Habitat | LP-2 | \$45,000 |
| Species Habitat | Create & Maintain Palustrine Wetland Habitat | LP-2 | \$6,500 |
| Subtotal | | | \$51,500 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$8,200 |
| Total | | | \$59,700 |

Income

| Tract | Item | Estimated Income |
|---------------|--------------------------------|------------------|
| Tract 2009008 | Hay Income | \$400 |
| Tract 2011001 | Hay Income | \$500 |
| Tract 2011002 | Sand & Gravel Royalties | \$2,000 |
| Tract 2011002 | Cropland Cash Rent Income | \$1,800 |
| Tract 2012004 | Cropland Cash Rent Income | \$3,600 |
| Tract 2012004 | Grazing Income | \$3,150 |
| Tract 2013001 | Irr. Cropland Cash Rent Income | \$6,600 |
| Tract 2013001 | Dry Cropland Cash Rent Income | \$3,720 |
| Total | | \$21,770 |

2022 Plum Creek "Complex" Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Implementation of full scale sediment augmentation** - Augment 60,000 cubic yards of sediment through mechanical augmentation. Augmentation will occur upstream of the Plum Creek Complex near the J-2 Return.
- * **Species Monitoring** – Monitor whooping crane use of riverine roosting habitat and least tern and piping plover use and productivity at off-channel sand and water nesting sites.

Species Habitat Priorities

- * **Improve Target Species Sand and Water Habitat** – Application of pre-emergent herbicide on OCSW peninsulas to maintain tern and plover nesting habitat. Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs including boundary fence signage, road maintenance, and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing lease on Tract 2009003. Oversight of cropland/hay leases on Tract 2009007.

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| PC 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Maintain Suitable In- and Off-Channel Sand & Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|------------------|--------------------|------------------|------------------|
| PC2 | Herbicide applications on OCSW peninsulas to maintain bare sand nesting habitat (21 ac) | 4/22 & 9/22 | TT | \$4,500 | LP-2 |
| PC 3 | Maintain blow sand from predator fences | 9/1/22 – 10/1/22 | TT | \$4,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-----------------|--------------------|------------------|------------------|
| PC 4 | Remove all large Cottonwood trees along the southern edge of the OCSW | 1/1/22 – 7/1/22 | TT | \$25,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|-------------------|--------------------|------------------|------------------|
| PC 5 | Tract 2009003 Prescribed burn (139 ac) | 3/15/22 – 5/15/22 | TT | \$5,700 | LP-2 |

Priority Area: *Species Habitat***Item(s): *Other Species of Concern***

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-----------------|--------------------|------------------|------------------|
| PC 6 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| PC 7 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | 1/1/22 – 4/1/22 | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s): *Basic Property Maintenance Obligations and Needs***

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|------------------|--------------------|------------------|------------------|
| PC 8 | Lodge & Quonset utilities and maintenance | Annual | TT | \$5,600 | LP-4 |
| PC 9 | Fence and road maintenance | Annual | TT | \$1,500 | LP-4 |
| PC 10 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$2,500 | LP-4 |
| PC 11 | Mowing | 7/15/22-10/15/22 | TT | \$5,000 | LP-4 |

Priority Area: Operations and Maintenance**Item(s): *Agricultural Operations***

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|--|--------------|--------------------|------------------|------------------|
| PC 12 | Oversight of grazing and cropland leases | Annual | TT | N/A | N/A |

2022 Plum Creek Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|--|------------------|-----------------------|
| Species Habitat | Maintain Suitable In- and Off-Channel Sand & Water Habitat | LP-2 | \$8,500 |
| Species Habitat | Target Species Sand and Water Habitat | LP-2 | \$25,000 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$5,700 |
| Subtotal | | | \$39,200 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$14,600 |
| Total | | | \$53,800 |

Income

| Tract | Item | Estimated Income |
|---------------|-----------------|------------------|
| Tract 2009003 | Grazing Income | \$0 |
| Tract 2009007 | Haying Income | \$3,000 |
| Tract 2009007 | Cropland Income | \$5,550 |
| Total | | \$8,550 |

2022 Cottonwood Ranch Complex Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of riverine and off-channel palustrine wetland roosting habitat and least tern and piping plover use and productivity at off-channel sand and water nesting sites.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Application of pre-emergent herbicide on OCSW peninsula to maintain tern and plover nesting habitat. Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * *Broad-Scale Recharge Water Supply and Whooping Crane Habitat Project* – Operation of the broad-scale recharge project will occur in 2022 with targeted fills during the fall and spring whooping crane migrations, and during other times of excess flows in the Platte River.
- * *Management of grassland/wet meadow habitat for whooping cranes and sandhill cranes* – Grazing will be deferred on Lloyd Island for the 2022 grazing season. Wet meadow areas in Section 16 T8N R19W (Tracts 2008002 and 2010001) will be grazed/hayed during the 2022 due to the completion of the Broad -Scale Recharge Water Supply and Whooping Crane Habitat Project construction.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2008002, 2009006, and 2010001 including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/ haying leases on Tracts 2009006 and 2010001.

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General

Item(s): *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| CR 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat

Item(s): *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|------------------|--------------------|------------------|------------------|
| CR 2 | Tract 2008002 Pre-emergent herbicide application on plover nesting island (2 ac) and OCSW area (17 ac). | 4/1/22 – 4/30/22 | TT | \$4,000 | LP-2 |
| CR 3 | In channel tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$12,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------|--------------------|------------------|------------------|
| CR 4 | Brush, tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$10,000 | LP-2 |
| CR 5 | Tract 2010001 Prescribed burn (135 ac) | 3/15/22 – 5/15/22 | TT | \$5,535 | LP-2 |
| CR 6 | Tract 2010001 Prescribed burn (15 ac) | 3/15/22 – 5/15/22 | TT | \$615 | LP-2 |

Item(s): Other Species of Concern

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| CR 7 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| CR 8 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s):** *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------|--------------------|--------------------|------------------|------------------|
| CR 9 | Fence and road maintenance | 1/1/22 – 12/31/22 | TT | \$10,000 | LP-4 |
| CR 10 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$14,500 | LP-4 |
| CR 11 | Mowing | 7/15/22 - 10/15/22 | TT | \$5,000 | LP-4 |
| CR 12 | Tract 2010001 Electricity | 5/15/22– 10/15/22 | TT | \$1,000 | LP-4 |

Priority Area: Operations and Maintenance**Item(s):** *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------------|--|---------------------|---------------------------|-------------------------|-------------------------|
| CR 13 | Tract 2009006 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| CR 14 | Tract 2010001 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| CR 15 | Tract 2010001 haying lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| CR 16 | Tract 20008002 grazing & haying lease planning & oversight | 5/15/22 – 10/15/22 | TT,JJ | N/A | N/A |

2022 Cottonwood Ranch Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|---|------------------|-----------------------|
| Species Habitat | Target Species Sand and Water Habitat | LP-2 | \$16,000 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$16,150 |
| Subtotal | | | \$32,150 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$30,500 |
| Total | | | \$62,650 |

Income

| Tract | Item | Estimated Income |
|----------------------|----------------|------------------|
| Tract 2009006 | Grazing Income | \$2,000 |
| Tract 2010001 | Grazing Income | \$0 |
| Tract 2010001 SE 1/4 | Grazing Income | \$3,360 |
| Tract 2010001 | Haying Income | \$3,000 |
| Total | | \$8,360 |

2022 Elm Creek Complex Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of in-channel roosting habitat and least tern and piping plover use and productivity at off-channel sand and water nesting sites.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2009002, 2009005, 2012001 and 2012002 including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/ haying leases on Tracts 2009005, 2012001 and 2012002.

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| EC 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|-----------------------|--------------|--------------------|------------------|------------------|
| EC 2 | No items | N/A | N/A | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------|--------------------|------------------|------------------|
| EC 3 | Brush, tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$5,000 | LP-2 |
| EC 4 | Tract 2009002 Prescribed burn (35 ac) | 3/15/22 – 5/15/22 | TT | \$1,440 | LP-2 |
| EC 5 | Tract 2012002 Prescribed burn (143 ac) | 3/15/22 – 5/15/22 | TT | \$5,883 | LP-2 |

Priority Area: Species Habitat
Item(s): Other Species of Concern

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| EC 6 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| EC 7 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance
Item(s): Basic Property Maintenance Obligations and Needs

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|--|--------------------|--------------------|------------------|------------------|
| EC 8 | Tract 2009002 building utilities and maintenance | 1/1/22 – 12/31/22 | TT | \$3,000 | LP-4 |
| EC 9 | Fence and road maintenance | 4/1/22 – 10/1/22 | TT | \$2,000 | LP-4 |
| EC 10 | Mowing | 7/15/22 - 10/15/22 | TT | \$3,000 | LP-4 |
| EC 11 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$5,500 | LP-4 |

Priority Area: Operations and Maintenance
Item(s): Agricultural Operations

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---------------------------------------|--------------------|--------------------|------------------|------------------|
| EC 12 | Tract 2009002 crop lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| EC 13 | Tract 2009005 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| EC 14 | Tract 2012001 haying lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| EC 15 | Tract 2012002 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |

2022 Elm Creek Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|---|------------------|-----------------------|
| Species Habitat | Target Species Sand and Water Habitat | LP-2 | \$0 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$12,323 |
| Subtotal | | | \$12,323 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$13,500 |
| Total | | | \$25,823 |

Income

| Tract | Item | Estimated Income |
|---------------|----------------|------------------|
| Tract 2009002 | Crop Income | \$4,350 |
| Tract 2009005 | Grazing Income | \$3,500 |
| Tract 2012001 | Haying Income | \$2,000 |
| Tract 2012002 | Grazing Income | \$6,075 |
| Total | | \$15,925 |

2022 Jerry F. Kenny Pawnee Complex Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of in-channel roosting habitat.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes. Remove vegetation from overbank areas adjacent to the channel to promote channel widening through lateral erosion.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2014002 and 2015002.
- * **Agricultural Operations** – Oversight of grazing/ haying leases on Tracts 2014002 and 2015002.

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Good Neighbor Policy*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|--|--------------|--------------------|------------------|------------------|
| PAW 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Adaptive Management & Target Species Habitat**Item(s):** *Tern, Plover and Whooping Crane Riverine Habitat Experiments*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|-------------------|--------------------|------------------|------------------|
| PAW 2 | Herbicide treatment on south bank to kill vegetation prior to disking (28 ac) | 4/15/22 – 5/15/22 | TT | \$6,200 | LP-2 |
| PAW 3 | In-channel island cross disking to facilitate erosion (20 ac) | 9/1/22 – 10/1/22 | TT | \$6,100 | LP-2 |
| PAW 4 | Remove trees along the northern edge of riparian area | 1/1/22 – 7/1/22 | TT | \$25,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---------------------------------------|-------------------|--------------------|------------------|------------------|
| PAW 5 | Tract 2014002 Prescribed burn (42 ac) | 3/15/22 – 5/15/22 | TT | \$1,728 | LP-2 |
| PAW 6 | Tract 2015002 Prescribed burn (8 ac) | 3/15/22 – 5/15/22 | TT | \$329 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|--------------|--------------------|------------------|------------------|
| PAW 7 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| PAW 8 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s):** *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|--------|-------------------------------------|------------------|--------------------|------------------|------------------|
| PAW 9 | Noxious weed control - (~675 acres) | 6/1/22 – 8/31/22 | TT | \$2,500 | LP-4 |
| PAW 10 | Fence and road maintenance | 4/1/22 – 10/1/22 | TT | \$4,000 | LP-4 |
| PAW 11 | Mowing | 7/15/22-10/15/22 | TT | \$1,000 | LP-4 |

Priority Area: Operations and Maintenance**Item(s):** *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|--------|---------------------------------------|------------------|--------------------|------------------|------------------|
| PAW 12 | Tract 2014002 grazing lease oversight | 5/15/22–10/15/22 | TT | N/A | N/A |
| PAW 13 | Tract 2015002 grazing lease oversight | 5/15/22–10/15/22 | TT | N/A | N/A |
| PAW 14 | Tract 2015002 haying lease oversight | 5/15/22–10/15/22 | TT | N/A | N/A |

2022 Jerry F. Kenny Pawnee Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|---------------------------------------|--|------------------|-----------------------|
| Adaptive Management & Species Habitat | Target Species Sand and Water Habitat | LP-2 | \$37,300 |
| Species Habitat | Whooping Crane Grassland / Wet Meadow Habitat | LP-2 | \$2,057 |
| | | Subtotal | \$39,357 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$7,500 |
| | | Total | \$46,857 |

Income

| Tract | Item | Estimated Income |
|-------------------------|----------------|------------------|
| Tract 2015002 | Haying Income | \$585 |
| Tract 2014002 & 2015002 | Grazing Income | \$3,188 |
| | Total | \$3,773 |

2022 Fort Kearny Complex Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of off-channel palustrine wetlands and in-channel roosting habitat.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes. Remove vegetation from overbank areas adjacent to the channel to promote channel widening through lateral erosion.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2008001, 2009001, 2009004, 2010003, 2012003 and 2015001 including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/haying leases on Tracts 2008001, 2012003, 2009001, 2009004, and 2015001.

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Good Neighbor Policy*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| FK 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|-------------------|--------------------|------------------|------------------|
| FK 2 | Herbicide treatment on perimeter of cleared islands to kill vegetation prior to disking (6 ac) | 4/15/22 – 5/15/22 | TT | \$1,500 | LP-2 |
| FK 3 | In-channel island cross disking to facilitate erosion (7 ac) | 9/1/22 – 10/1/22 | TT | \$1,700 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------------------------|--------------------|------------------|------------------|
| FK 4 | Tract 2009001 Annual electrical service fee at irrigation well to supplement water to wetland | 3/1/22 - 4/15/22 & 10/1/22-11/15/22 | TT | \$4,000 | LP-2 |
| FK 5 | Brush, tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$10,000 | LP-2 |
| FK 6 | Tract 2008001- Prescribe burn (103 ac) | 3/15/22 – 5/15/22 | TT | \$4,223 | LP-2 |
| FK 7 | Tract 2009004- Prescribe burn (225 ac) | 3/15/22 – 5/15/22 | TT | \$9,257 | LP-2 |
| FK 8 | Tract 2010003- Prescribe burn (77 ac) | 3/15/22 – 5/15/22 | TT | \$3,157 | LP-2 |

| | | | | | |
|-------|--|-------------------|----|---------|------|
| FK 9 | Tract 2015001 NE unit Prescribe burn (55 ac) | 3/15/22 – 5/15/22 | TT | \$2,263 | LP-2 |
| FK 10 | Tract 2015001 South unit Prescribe burn (180 ac) | 3/15/22 – 5/15/22 | TT | \$7,380 | LP-2 |

Priority Area: Species Habitat

Item(s): *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|--------------|--------------------|------------------|------------------|
| FK 11 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| FK 12 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |
| FK 13 | Purchase and Installation of Violet plugs on Tract 2015001 | Spring 2021 | MH | \$6,000 | LP-2 |

Priority Area: Operations and Maintenance

Item(s): *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|-------------------------------------|-------------------|--------------------|------------------|------------------|
| FK 14 | Tract 2009004 & 2015001 Electricity | 1/1/22 – 12/31/22 | TT | \$1,000 | LP-4 |
| FK 15 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$15,000 | LP-4 |
| FK 16 | Fence and road maintenance | 4/1/22 – 10/1/22 | TT | \$2,000 | LP-4 |
| FK 17 | Mowing | 7/15/22-10/15/22 | TT | \$1,000 | LP-4 |

Item(s): *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---------------------------------------|--------------------|--------------------|------------------|------------------|
| FK 18 | Tract 2008001 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| FK 19 | Tract 2012003 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| FK 20 | Tract 2015001 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |

2022 Ft Kearny Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|---|------------------|-----------------------|
| Species Habitat | Improve Sand and Water Habitat | LP-2 | \$3,200 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$40,280 |
| Species Habitat | Other Species of Concern | LP-2 | \$6,000 |
| Subtotal | | | \$49,480 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$19,000 |
| Total | | | \$68,480 |

Income

| Tract | Item | Estimated Income |
|---------------------------|-----------------|------------------|
| Tract 2008001 N & 2012003 | Grazing Income | \$6,500 |
| Tract 2008001 S | Haying Income | \$7,000 |
| Tract 2009001 | Grazing Income | \$6,820 |
| Tract 2009004 | Grazing Income | \$11,275 |
| Tract 2012003 | Cropland Income | \$1,800 |
| Tract 2015001 | Grazing Income | \$11,250 |
| Total | | \$44,645 |

2022 Minden – Gibbon Management Agreement Annual Work Plan

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of in-channel roosting habitat.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.

Priority Area: Species Habitat

Item(s): *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|-------------------|--------------------|------------------|------------------|
| M-G 1 | Brush, tree, cattail herbicide spraying | 9/1/22 – 10/30/22 | TT | \$5,000 | LP-2 |

2022 Minden-Gibbon Management Agreement Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|-----------------|---|------------------|-----------------------|
| Species Habitat | Improve Target Species Sand and Water Habitat | LP-2 | \$5,000 |
| | | Total | \$5,000 |

2022 Clark Island Complex Annual Work Plan

General Priorities

- * **Complex Land Interest** - Execute management agreements with conservation and private landowners that will allow the Program to implement necessary construction, maintenance and research/monitoring activities.
- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Whooping Crane Riverine Habitat** – Design and implement vegetation clearing to provide a range of unobstructed view widths above the Programs minimums
- * **Species Monitoring** – Monitor whooping crane use of palustrine wetlands and in-channel roosting habitat.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tract 2010004 including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of cropland, grazing/ haying leases on Tract 2010004

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| CI 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------|--------------------|------------------|------------------|
| CI 2 | Herbicide treatment on south bank to kill vegetation prior to disking (18 ac) | 4/15/22 – 5/15/22 | TT | \$4,000 | LP-2 |
| CI 3 | In-channel island cross disking to facilitate erosion (18 ac) | 9/1/22 – 10/1/22 | TT | \$4,100 | LP-2 |
| CI 4 | Clear Trees & Burn, Bury on Islands of neighboring properties pending mgmt | 7/15/21 – 2/1/22 | TT | \$30,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| | | | | | |
|------|---|-------------------|----|----------|------|
| CR 5 | Brush, tree, cattail herbicide spraying | 1/16/22-11/1/22 | TT | \$5,000 | LP-2 |
| CI 6 | Tract 2018001 Prescribe burn (252 ac) | 3/15/22 – 5/15/22 | TT | \$10,340 | LP-2 |

Priority Area: Species Habitat
Item(s): *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| CI 7 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| CI 8 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance
Item(s): *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---|-------------------|--------------------|------------------|------------------|
| CI 9 | Clear trees for east boundary fenceline through trees | 1/1/22 – 12/31/22 | TT | \$20,000 | LP-4 |
| CI 10 | Fence and road maintenance | 1/1/22 – 12/31/22 | TT | \$10,000 | LP-4 |
| CI 11 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$5,000 | LP-4 |
| CI 12 | Mowing | 7/15/22- 10/15/22 | TT | \$1,000 | LP-4 |

Priority Area: Operations and Maintenance
Item(s): *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------------|--------------------|--------------------|------------------|------------------|
| CI 13 | Grazing & Haying lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |

2022 Clark Island Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|--|------------------|-----------------------|
| Species Habitat | Improve Target Species Sand and Water Habitat | LP-2 | \$38,100 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$15,340 |
| Subtotal | | | \$53,440 |
| | | | |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$36,000 |
| Total | | | \$89,440 |

Income

| Tract | Item | Estimated Income |
|---------------|---------------------------|------------------|
| Tract 2018001 | Meadow Grazing Income | \$7,150 |
| Tract 2018001 | Accretion Grazing Income | \$0 |
| Tract 2018001 | Cropland Cash Rent Income | \$26,190 |
| Total | | \$33,340 |

2022 Shoemaker Island Complex Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Species Monitoring** – Monitor whooping crane use of palustrine wetlands and in-channel roosting habitat.

Species Habitat Priorities

- * **Maintain Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tract 2010004 including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/ haying leases on Tract 2010004

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| SI 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|-----------------------|--------------|--------------------|------------------|------------------|
| SI 2 | No items | N/A | N/A | \$0 | N/A |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| | | | | | |
|------|--|-------------------|----|---------|------|
| SI 3 | Tract 2010004-North 1/2 West Unit Prescribe burn (171 ac) | 3/15/22 – 5/15/22 | TT | \$7,011 | LP-2 |
| SI 4 | Tract 2010004-North 1/2 East Unit Prescribe burn (83 ac) | 3/15/22 – 5/15/22 | TT | \$3,403 | LP-2 |
| SI 5 | Tract 2010004-South Meadow Prescribe burn (57 ac) | 3/15/22 – 5/15/22 | TT | \$2,345 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| SI 6 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| SI 7 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s):** *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------|--------------------|--------------------|------------------|------------------|
| SI 8 | Fence and road maintenance | 1/1/22 – 12/31/22 | TT | \$1,000 | LP-4 |
| SI 9 | Noxious weed control | 6/1/22– 8/31/22 | TT | \$2,500 | LP-4 |
| SI 10 | Mowing | 7/15/22- 10/15/22 | TT | \$1,000 | LP-4 |
| SI 11 | Tract2010004 Electricity | 5/15/22 – 10/15/22 | TT | \$200 | LP-4 |

Priority Area: Operations and Maintenance**Item(s):** *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------------|--------------------|--------------------|------------------|------------------|
| SI 12 | Grazing & Haying lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |

2022 Shoemaker Island Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|-----------------|---|------------------|-----------------------|
| Species Habitat | Improve Target Species Sand and Water Habitat | LP-2 | \$0 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$12,759 |
| Subtotal | | | \$12,759 |

| | | | |
|----------------------------|--|------|-----------------|
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$4,700 |
| Total | | | \$17,459 |

Income

| Tract | Item | Estimated Income |
|---------------|-------------------------|------------------|
| Tract 2010004 | Grazing & Haying Income | \$43,000 |
| Total | | \$43,000 |

2022 Chapman Complex Annual Work Plan

General Priorities

- * **Restoration and Management Planning** – Development of restoration and management plan for Tract 2021001.
- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Adaptive Management Priorities

- * **Whooping Crane Riverine Habitat** – Design and implement vegetation clearing to provide a range of unobstructed view widths above the Programs minimums
- * **Species Monitoring** – Monitor whooping crane use of palustrine wetlands and in-channel roosting habitat.

Species Habitat Priorities

- * **Improve Target Species Sand and Water Habitat** – Control in-channel vegetation to maintain suitable unobstructed view widths for whooping cranes.
- * **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts including fence and road maintenance and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/ haying leases

NOTE: The budget section of this work plan only contains information for work items that are specific to these tracts. As such, tract-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.

Priority Area: General**Item(s):** *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|------------------|--------------------|------------------|------------------|
| CC 1 | Restoration and Management Planning for Tract 2021001 | 1/1/22 - 10/1/22 | TT | N/A | N/A |
| CC 2 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Species Habitat**Item(s):** *Improve Target Species Sand and Water Habitat*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|-------------------|--------------------|------------------|------------------|
| CC 3 | Herbicide treatment on south bank to kill vegetation prior to disking (46 ac) | 4/15/22 – 5/15/22 | TT | \$10,100 | LP-2 |
| CC 4 | In-channel island cross disking to facilitate erosion (46 ac) | 9/1/22 – 10/1/22 | TT | \$10,000 | LP-2 |

Priority Area: Species Habitat**Item(s):** *Whooping Crane Grassland / Wet Meadow Habitat*

| | | | | | |
|------|------------------------------------|-------------------|----|----------|------|
| CI 5 | Aboveground tree removal in meadow | 3/15/22 – 5/15/22 | TT | \$20,000 | LP-2 |
|------|------------------------------------|-------------------|----|----------|------|

Priority Area: Species Habitat**Item(s):** *Other Species of Concern*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|---|--------------|--------------------|------------------|------------------|
| CC 6 | Habitat and species surveys on properties where work will occur | As Needed | MH | N/A | N/A |
| CC 7 | Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with land activities | As Needed | MH | N/A | N/A |

Priority Area: Operations and Maintenance**Item(s):** *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|----------------------------|-------------------|--------------------|------------------|------------------|
| CC 8 | Fence and road maintenance | 1/1/22 – 12/31/22 | TT | \$20,000 | LP-4 |
| CC 9 | Noxious weed control | 6/1/22– 8/31/22 | TT | \$10,000 | LP-4 |
| CC 10 | Mowing | 7/15/22- 10/15/22 | TT | \$1,000 | LP-4 |

Priority Area: Operations and Maintenance**Item(s):** *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|-------|---------------------------------------|--------------------|--------------------|------------------|------------------|
| CC 11 | Tract 2019001 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| CC 12 | Tract 2021001 grazing lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |
| CC 13 | Tract 2021001 crop lease oversight | 5/15/22 – 10/15/22 | TT | N/A | N/A |

2022 Chapman Complex Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|--|---------------------|------------------------|
| Species Habitat | Improve Target Species Sand & Water Habitat | LP-2 | \$20,100 |
| Species Habitat | Whooping Crane Wet Meadow/ Grassland Habitat | LP-2 | \$20,000 |
| | | | <i>\$40,100</i> |
| Operations and Maintenance | Property Maintenance and Agricultural Operations | LP-4 | \$31,000 |
| | | <i>Total</i> | <i>\$71,100</i> |

Income

| Tract | Item | Estimated Income |
|---------------|-------------------------------|------------------|
| Tract 2019001 | Grazing lease | \$3,640 |
| Tract 2021001 | Grazing lease-estimate | \$4,000 |
| Tract 2021001 | Irrigated Crop lease-estimate | \$30,358 |
| | Total | \$37,998 |

2022 Water Properties Annual Work Plan

General Priorities

- * **Good Neighbor Policy** - Conduct all actions in accordance with Program's good neighbor policy.

Operations and Maintenance Priorities

- * **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts W2016002, W2017001, W2017002 & W201703 including fence and road maintenance, irrigation management and noxious weed control.
- * **Agricultural Operations** – Oversight of grazing/ haying lease on Tract W2016002

Priority Area: General

Item(s): *Complex Land Interest and Complex-Level Planning*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|--|--------------|--------------------|------------------|------------------|
| WP 1 | Coordination of Program land actions with neighboring landowners | Annual | TT | N/A | N/A |

Priority Area: Operations and Maintenance

Item(s): *Basic Property Maintenance Obligations and Needs*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|-----------------------------|------------------|--------------------|------------------|------------------|
| WP 2 | Fence and road maintenance | 1/1/22–12/31/22 | TT | \$1,000 | WPLW-1 |
| WP 3 | Noxious weed control | 6/1/22 – 8/31/22 | TT | \$5,000 | WPLW-1 |
| WP 4 | Mowing | 7/15/22-10/15/22 | TT | \$1,000 | WPLW-1 |
| WP 5 | Tracts W2016002 Electricity | 5/15/22– 0/15/22 | TT | \$100 | WPLW-1 |
| WP 6 | Taxes | 5/15/22–10/15/22 | TT | \$9,750 | WPLW-1 |

Priority Area: Operations and Maintenance

Item(s): *Agricultural Operations*

| No. | Management Activities | Target Dates | Person Responsible | Cost (Estimated) | Budget Line Item |
|------|-------------------------------|--------------------|--------------------|------------------|------------------|
| WP 7 | Tract W201602 Lease Oversight | 5/15/22 – 10/15/22 | TT | N/A | WPLW-1 |

2022 Water Properties Budget Summary

Expenditures by Program Budget Line Item

| Priority Area | Item | Budget Line Item | Estimated Expenditure |
|----------------------------|--|------------------|-----------------------|
| Operations and Maintenance | Property Maintenance and Agricultural Operations | WPLW-1 | \$16,850 |
| | | Total | \$16,850 |

Income

| Tract | Item | Estimated Income |
|---------------|--------------|------------------|
| Tract W201602 | Crop Income | \$9,125 |
| | Total | \$9,125 |