



## 2014 Land Budget Overview

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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#### ***2014 Budget Overview by Budget Line Item***

<b>Budget Line Item</b>	<b>Description</b>	<b>Estimated Expenditure</b>
LP-2	Adaptive Management Species Habitat Actions*	\$432,080
LP-3	New Land Acquisitions	\$1,000,000
LP-4	Property Maintenance & Agricultural Operations**	\$192,500
LP-6	Land Plan Special Advisors	\$80,000
LP-7	Public Access Management	\$50,000
PD-13	Sediment Augmentation Management Experiment***	\$500,000
IMRP-5	Shoemaker Island FSM "Proof of Concept" Man. Experiment***	\$339,900

\*Includes \$50,000 in LP-2 for new acquisitions in 2013.

\*\*Includes \$50,000 in LP-4 for new acquisitions in 2013.

\*\*\*These budget items have not been reviewed by the LAC and may be revised subsequent to LAC approval of land budget items.

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### ***2014 Budget Overview by Complex***

<b>Complex</b>	<b>Estimated Expenditure</b>	<b>Estimated Income</b>
Non- Complex Tracts	\$78,300	\$45,600
Plum Creek "Complex"	\$317,800	\$17,204
Cottonwood Ranch Complex	\$322,120	\$24,000
Elm Creek Complex	\$170,420	\$38,555
Fort Kearny Complex	\$58,340	\$50,810
Shoemaker Island Complex	\$417,500	\$38,900
New Acquisitions (Estimated 4)	\$100,000*	N/A
<b>Total</b>	<b>\$1,464,480</b>	<b>\$215,069</b>

*\*\$50,000 for maintenance and \$50,000 for species habitat*

*The Program is also planning to divest of excess portions of two non-complex tracts in 2013. The proceeds from those potential land sales are not included in the income estimates above.*

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### ***2014 Budget Priority Areas by Budget Line Item***

**LP-2 – Adaptive Management Species Habitat Actions:** Species habitat priorities for 2014 are focused on maintenance of complex and non-complex habitat as well as enhancement of off-channel palustrine wetland habitat for whooping cranes at newly acquired palustrine wetland sites.

**LP-3 – New Land Acquisitions:** The majority of complex and non-complex sand bit habitat lands have been acquired. As such, 2014 priorities will include acquisition of lands for non-complex palustrine wetlands as well as acquisition of remaining complex habitat acres in a bridge segment that currently does not have a habitat complex.

**LP-4 – Property Maintenance & Agricultural Operations:** 2014 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 in 2014.

**PD-13 – Sediment Augmentation:** The 2014 priority for sediment augmentation is implementation of full-scale augmentation at the Plum Creek and Cottonwood Ranch complexes. The augmentation will be rigorously monitored to determine if augmentation methods are performing satisfactorily and/or there are negative in-channel impacts from augmentation.

**IMRP-5 – Shoemaker Island FSM “Proof of Concept” Management Experiment:** The priority in 2014 will be implementation of the second year of the FSM “Proof of Concept” management experiment at the Shoemaker Island Complex. Activities will include 2-D hydraulic and sediment transport modeling to predict FSM performance as well as implementation of geomorphology, vegetation, and sediment monitoring.



## 2014 Non-Complex Properties Annual Work Plan (2009008, 2010002, 2011001, 2011002 2012004 & 2013001)

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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### General Priorities

- **Good Neighbor Policy** – Conduct all actions in accordance with Program’s good neighbor policy.
  - **Restoration and Maintenance Planning** – Develop Restoration and Maintenance Plan for Tracts 2011002 and 2013001.
  - **Excess Property Disposal** – Complete disposal of excess non-complex acres on Tracts 2009008 and 2011001.
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### Adaptive Management Priorities

- **Riverine versus Off-Channel Whooping Crane Roosting** – Monitor whooping crane use on Program riverine habitat and non-complex off-channel palustrine wetland habitat.
  - **Riverine versus Off-Channel Tern and Plover Nesting** – Monitor tern and plover use and productivity on Program riverine habitat and nearby non-complex off-channel sand & water nesting habitat.
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### Species Habitat Priorities

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

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*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.*

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**Priority Area: General**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC1	Initiate restoration and maintenance planning effort for Tracts 2011002 and 2013001.	1/1/14-5/1/14	JB	N/A	N/A
NC2	Coordination of Program land actions with neighboring landowners	Annual	BS	N/A	N/A
NC3	Complete disposal of excess acres at Tracts 2009008 and 2011001.	1/1/14– 6/1/14	BS	N/A	N/A

**Priority Area: Species Habitat**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC4	Herbicide applications on OCSW peninsulas to maintain bare sand nesting habitat <sup>1</sup>	4/2014 & 9/2014	TT	\$8,000	LP-2

**Priority Area: Species Habitat**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC5	Manage herbaceous vegetation in palustrine wetland area of Tract 2012004 <sup>2</sup>	3/1/14 – 3/23/14	TT	\$13,800	LP-2
NC6	Irrigation well pumping to augment water level in wetland area of Tracts 2012004 and 2013001 <sup>3</sup>	3/1/14 – 3/23/14	TT	\$10,000	LP-2
NC7	Palustrine wetland enhancements on Tract 2013001 <sup>4</sup>	5/1/14-7/1/14	JB	\$30,000	LP-2

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**Priority Area: Species Habitat**

**Item(s): Other Species of Concern**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC8	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
NC9	Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with 2014 land activities	1/1/14 – 4/1/14	TBD	N/A	N/A

**Priority Area: Operations and Maintenance**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC10	Fence and road maintenance <sup>5</sup>	Annual	TT	\$12,500	LP-4
NC11	Noxious weed control <sup>6</sup>	6/1/14 – 8/31/14	TT	\$3,000	LP-4
NC12	Mowing <sup>7</sup>	7/15/14- 10/15/14	TT	\$1,000	LP-4

**Priority Area: Operations and Maintenance**

**Item(s): Agricultural Operations**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
NC13	Oversight of grazing and cropland leases	Annual	TT	N/A	N/A
NC14	Oversight of sand and gravel mining operations	Annual	BS	N/A	N/A

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<sup>1</sup> Based on 2013 herbicide application costs

<sup>2</sup> Based on estimated 69 acres of transitional wetland vegetation removal (\$200/AC for shredding/ mulching)

<sup>3</sup> Based on 2012 estimate for pumping at Tract 2010001

<sup>4</sup> Based on engineer estimate for wetland enhancement

<sup>5</sup> Based on \$12,000 for miscellaneous fence repair/ construction and \$500 for road grading

<sup>6</sup> Based on 2013 noxious weed control costs

<sup>7</sup> Based on 2013 mowing costs

### **Personnel Responsibility Key:**

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Biologist)

JB – Justin Brei (Biosystems Engineer)

TT – Tim Tunnell (Land Manager)

JF – Jason Farnsworth (Technical Support Services)

### **Property Identification Key:**

2009008 – PRRIP Broadfoot Newark Tract

2010002 – Broadfoot Kearney South Tract

2011001 – PRRIP Leaman Tract

2011002 – PRRIP Follmer Tract

2012004 – PRRIP DeBore Tract

2013001 – PRRIP Liehs Tract



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## 2014 Non-Complex Tracts Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Species Habitat	Non-Complex Habitat Restoration and Maintenance	LP-2	\$61,800
Operations and Maintenance	Property Maintenance and Agricultural Operations	LP-4	\$16,500
		<b>Total</b>	<b>\$78,300</b>

### *Estimated 2014 Revenues*

Priority Area	Item	Estimated Income
Operations and Maintenance	Tract 2009008 Sand & Gravel Royalties	\$12,000
Operations and Maintenance	Tract 2009008 Cropland Income (43 acres)	\$8,600
Operations and Maintenance	Tract 2011002 Sand & Gravel Royalties	\$4,000
Operations and Maintenance	Tract 2012004 Cropland Income	\$3,000
Operations and Maintenance	Tract 2012004 Grazing Income	\$3,000
Operations and Maintenance	Tract 2013001 Cropland Income	\$15,000



## 2014 Plum Creek “Complex” Annual Work Plan

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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#### General Priorities

- **Good Neighbor Policy** – Conduct all actions in accordance with Program’s good neighbor policy.
  - **Complex-Level Planning** – Develop Complex Restoration and Management Plan following completion of sediment augmentation trial-scale management experiment implementation.
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#### Adaptive Management Priorities

- **Sediment Augmentation Management Experiment** – Implementation of full-scale sediment augmentation to offset sediment deficit.
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#### Species Habitat Priorities

- **Improve Target Species Sand and Water Habitat** –Application of pre-emergent herbicide on OCSW peninsulas and in-channel islands to maintain tern and plover nesting habitat. Control in-channel vegetation to prevent further degradation of in-channel habitat.
  - **Protecting Other Species of Concern** – Identify presence of and determine methods to protect other species of concern during implementation of land-related activities.
  - **Whooping Crane Grassland/ Wet Meadow Habitat**- Prescribed burn on grasslands in spring 2014.
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## Operations and Maintenance Priorities

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

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

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**Priority Area: General**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC1	Coordination of Program land actions with neighboring landowners	Annual	BS	N/A	N/A
PC2	Coordinate with NPPD to identify and mitigate potential impacts to leased NPPD nesting islands	1/1/14– 4/1/14	JF	N/A	N/A

**Priority Area: Adaptive Management**

**Item(s): Sediment Augmentation Experiment**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC3	Implementation of full-scale sediment augmentation management experiment <sup>1</sup>	1/1/14 – 5/31/14	JF	\$250,000	PD-13

**Priority Area: Species Habitat**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC4	Herbicide applications on OCSW peninsulas to maintain bare sand nesting habitat <sup>2</sup>	4/2014 & 9/2014	TT	\$3,500	LP-2
PC5	Disking if necessary to provide in-channel vegetation control <sup>3</sup>	9/1/14 – 10/1/14	TT	\$8,000	LP-2

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC6	Prescribe burn of grassland units south of the channel <sup>4</sup>	3/15/14 – 4/7/14	TT	\$13,800	LP-2

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC7	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
PC8	Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with 2012 land activities	1/1/14 – 4/1/14	TBD	N/A	N/A

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC9	Fence and road maintenance <sup>5</sup>	Annual	TT	\$2,500	LP-4
PC10	Noxious weed control <sup>6</sup>	6/1/14 – 8/31/14	TT	\$7,500	LP-4
PC11	Livestock grazing facility improvements <sup>7</sup>	7/15/14 – 10/1/14	TT	\$26,500	LP-4
PC12	Lodge and Quonset utilities and maintenance <sup>8</sup>	Annual	TT	\$5,000	LP-4
PC13	Mowing <sup>9</sup>	7/15/14- 10/15/14	TT	\$1,000	LP-4

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
PC14	Oversight of grazing and cropland leases	Annual	TT	N/A	N/A

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<sup>1</sup>Based on estimated typical unit cost of mechanical augmentation

<sup>2</sup>Based on 2013 herbicide application costs

<sup>3</sup>Approx. 40 hours of in-channel disking at \$200/hr.

<sup>4</sup>Burn unit area of 230 acres at \$60/ac

<sup>5</sup>Based on 2013 maintenance costs for Plum Creek Complex

<sup>6</sup>Based on 2013 noxious weed control costs for Plum Creek Complex

<sup>7</sup>Approx. 5,000 LF of fence on Tract 2009003 and 7,000 LF of fence on Tract 2009007 at \$2.00/LF and \$2,500 for installation of watering facilities on Tract 2009003 (based on watering facility costs at Cottonwood Ranch Complex)

<sup>8</sup>Based on 2013 lodge and Quonset utility costs and estimated cost for interior and exterior repairs and maintenance

<sup>9</sup>Based on 2013 mowing costs

**Personnel Responsibility Key:**

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Biologist)

TT – Tim Tunnell (Land Manager)

JF – Jason Farnsworth (Technical Support Services)

**Property Identification Key:**

2009003 – PRRIP Dyer Tract

2009007 – PRRIP Cook Tract

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## 2014 Plum Creek Complex Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Adaptive Management	Sediment Augmentation Management Experiment	PD-13	\$250,000
Species Habitat	Target Species Sand and Water Habitat	LP-2	\$11,500
Species Habitat	Whooping Crane Wet Meadow/Grassland Habitat	LP-2	\$13,800
		<b>Subtotal</b>	<b>\$25,300</b>
Operations and Maintenance	Property Maintenance and Agricultural Operations	LP-4	\$42,500
		<b>Total</b>	<b>\$317,800</b>

### *Estimated 2014 Revenues*

Priority Area	Item	Estimated Income
Operations and Maintenance	Tract 2009003 Grazing Income	\$4,950
Operations and Maintenance	Tract 2009007 Haying Income	\$1,700
Operations and Maintenance	Tract 2009007 Cropland Income	\$10,554



## 2014 Cottonwood Ranch Complex Annual Work Plan

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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#### General Priorities

- **Good Neighbor Policy** – Conduct all actions in accordance with Program’s good neighbor policy.
  - **Management Updates** – Develop complex restoration and management plan and update operations and maintenance plan for Tract 2008002.
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#### Adaptive Management Priorities

- **Riverine versus Off-Channel Tern and Plover Nesting** – Monitor tern and plover use and productivity on Program riverine habitat and nearby off-channel sand & water nesting habitat (OCSW nesting complex on CWR property).
  - **Full-Scale Sediment Augmentation Management Experiment** – Implement full-scale augmentation in the form of mechanical channel widening. Monitor performance of augmentation.
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#### Species Habitat Priorities

- **Improve Target Species Sand and Water Habitat** – Application of pre-emergent herbicide on cleared areas and tern and plover nesting islands, and in-channel discing as necessary to control vegetation.
  - **Management of grassland/wet meadow habitat for whooping cranes and sandhill cranes** – Implementation of prescribed fire and grazing rotation in Section 16 T8N R19W (Tracts 2008002 and 2010001) to provide short grassland structure on ¼ of area during spring and fall crane migrations.
  - **Protecting Other Species of Concern** – Identify presence of and determine methods to protect and/or benefit other species of concern while implementing land-related activities.
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## 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.
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*NOTE: The budget section of this work plan only contains information for work items that are specific to this complex. As such, complex-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.*

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**Priority Area: General**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR1	Coordination of Program land actions with neighboring landowners	1/1/14– 12/31/14	BS	N/A	N/A
CR2	Develop complex plan and update operations plan for Tract 2008002.	1/1/14 – 8/1/14	JB	N/A	N/A

**Priority Area: Adaptive Management**

**Item(s): Full-Scale Sediment Augmentation Management Experiment**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR3	Full-scale sediment augmentation implementation and monitoring <sup>1</sup>	1/1/14 – 12/31/14	CS	\$250,000	PD-13

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**Priority Area:** *Species Habitat*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR4	Tract 2008002 Pre-emergent herbicide application on in-channel tern and plover nesting habitat and OCSW complex <sup>2</sup>	4/1/14 – 4/30/14	TT, JJ	\$9,500	LP-2
CR5	Disking if necessary to provide in-channel vegetation control <sup>3</sup>	9/1/14 – 10/1/14	TT	\$8,000	LP-2

**Priority Area:** *Species Habitat*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR6	Tract 2008002 Prescribed burn on NE ¼ of Section 16 T8N R19W <sup>4</sup>	3/15/14 – 4/7/14	TT	\$9,600	LP-2
CR7	Tract 2010001 Annual electrical service fee at pump at irrigation well on SW ¼ to supplement water to wetland <sup>5</sup>	3/15/14-5/15/14, 10/1/14-11/15/14	TT	\$5,000	LP-2
CR8	Tract 2010001 - Prescribed burn on Morse-middle unit and restored crop field <sup>6</sup>	3/15/14 – 4/7/14	TT	\$14,400	LP-2
CR9	Tract 2008002 - Grass seeding of 2012 forest clearing area south of OCSW <sup>7</sup>	4/15/14- 5/15/14	TT	\$6,120	LP-2

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR10	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
CR11	Coordination with NPPD, USFWS and NGPC to identify and mitigate potential impacts associated with 2014 land activities	As Needed	TBD	N/A	N/A

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR12	Boundary fence and road maintenance <sup>8</sup>	1/1/14 – 12/31/14	TT, JJ	\$9,000	LP-4
CR13	Noxious weed control <sup>9</sup>	4/1/14– 9/30/14	TT, JJ	\$9,500	LP-4
CR14	Mowing <sup>10</sup>	7/15/14 – 11/1/14	TT	\$1,000	LP-4

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
CR15	Tract 2009006 grazing lease oversight	5/15/14-10/15/14	TT	N/A	N/A
CR16	Tract 2010001 grazing lease oversight	5/15/14-10/15/14	TT	N/A	N/A
CR17	Tract 2010001 haying lease oversight	7/15/14-10/15/14	TT	N/A	N/A

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<sup>1</sup> Based on estimated typical unit cost of mechanical augmentation

<sup>2</sup> Based on 2013 costs

<sup>3</sup> Approx. 40 hours of in-channel disking at \$200/HR

Burn unit area of 160 acres at \$60/AC

<sup>5</sup> Based on 2011 well repair costs at Fort Kearny Complex

<sup>6</sup> Burn unit area of 240 acres at \$60/AC

<sup>7</sup> Based on seed estimate for 51 acres @ \$80/AC for seed and \$40/AC for drilling

<sup>8</sup> Based on 2013 costs

<sup>9</sup> Based on 2013 costs

<sup>10</sup> Based on 2013 costs

#### **Personnel Responsibility Key:**

JJ – Jim Jenniges (NPPD)

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Wildlife Biologist)

TT – Tim Tunnell (Land Manager)

JB – Justin Brei (Biosystem Engineer)

JF – Jason Farnsworth (Technical Support Services)

CS – Chad Smith (Director of Natural Resources)

#### **Property Identification Key:**

2008002 – NPPD Cottonwood Ranch

2009006 – PRRIP Stall Tract

2010001 – PRRIP Morse Tract

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## 2014 Cottonwood Ranch Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Adaptive Management	Full-Scale Sediment Augmentation Management Experiment	PD-13	\$250,000
Adaptive Management & Species Habitat	Target Species Sand and Water Habitat	LP-2	\$17,500
Species Habitat	Grassland / Wet Meadow Habitat	LP-2	\$35,120
		<b>Subtotal</b>	<b>\$52,620</b>
Operations and Maintenance	Property Maintenance Obligations and Needs	LP-4	\$19,500
		<b>Total</b>	<b>\$322,120</b>

### *Estimated 2014 Revenues to Program*

Priority Area	Item	Estimated Income
Agricultural Operations	Tract 2009006 Grazing Lease Income	\$4,000
Agricultural Operations	Tract 2010001 Grazing Lease Income	\$15,000
Agricultural Operations	Tract 2010001 Haying Lease Income	\$5,000



## 2014 Elm Creek Complex Annual Work Plan

### Platte River Recovery Implementation Program

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#### General Priorities

- ***Good Neighbor Policy*** – Conduct all actions in accordance with Program's good neighbor policy.
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#### Adaptive Management Priorities

- ***Tern and Plover Riverine Habitat Experiment*** – Maintenance of in-channel nesting islands constructed in 2012.
  - ***Whooping Crane Riverine Habitat Experiment*** – Vegetation control in and adjacent to channel to maintain a range of unobstructed view widths above the Program's minimums.
  - ***Riverine versus Off-Channel Tern and Plover Nesting*** – Monitor tern and plover use and productivity on Program riverine habitat and nearby off-channel sand & water nesting habitat (NPPD's Blue Hole sandpit and Johnson Sandpit).
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#### Species Habitat Priorities

- ***Maintain Target Species Sand and Water Habitat*** – Create and maintain sand and water habitat for species through construction of in-channel nesting islands and vegetation control to maintain active channel width and unobstructed view widths.
  - ***Protecting Other Species of Concern*** – Identify presence of and determine methods to protect and/or benefit other species of concern while implementing land-related activities.
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## Operations and Maintenance Priorities

- ***Basic Property Maintenance Obligations and Needs*** – *Fulfill basic property ownership obligations and needs on Tracts 2009002, 2009005, 2012001 and 2012002.*
  - ***Agricultural Operations*** – *Oversight of grazing/ haying lessee on Tracts 2009005, 2012001 and 2012002.*
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*NOTE: The budget section of this work plan only contains information for work items that are specific to this complex. As such, complex-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.*



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**Priority Area:** *General*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC1	Coordination of Program land actions with neighboring landowners	1/1/14 – 12/31/14	BS	N/A	N/A

**Priority Area:** *Adaptive Management & Target Species Habitat*

**Item(s):** *Tern, Plover and Whooping Crane Riverine Habitat Experiments*

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC2	Herbicide applications on islands to maintain bare sand nesting habitat <sup>1</sup>	4/2014 & 9/2014	TT	\$4,500	LP-2
EC3	In-channel cross disking (below diversion) and overbank mowing to maintain active channel and unobstructed view widths <sup>2</sup>	9/1/14– 10/1/14	TT	\$10,000	LP-2

**Priority Area:** *Species Habitat*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC4	Tract 2012002 Prescribed burn <sup>3</sup>	3/15/14–4/14	TT	\$10,920	LP-2
EC5	Tracts 2012002 wetland checks installation/modifications? <sup>4</sup>	7/15/14- 10/15/14	JB	\$100,000	LP-2
EC6	Tract 2012002 Brush herbicide/ mulching treatment <sup>5</sup>	8/15/14-10/15/14	TT	\$20,000	LP-2

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC7	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
EC8	Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with 2014 land activities	As Needed	TBD	N/A	N/A

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC9	Tract 2009002 building utilities and maintenance <sup>6</sup>	1/1/14 – 12/31/14	TT	\$3,000	LP-4
EC10	Fence and road maintenance <sup>7</sup>	4/1/14 – 10/1/14	TT	\$6,000	LP-4
EC11	Mowing <sup>8</sup>	7/15/14 – 11/1/14	TT	\$1,000	LP-4
EC12	Noxious weed control <sup>9</sup>	6/1/14 – 8/31/14	TT	\$10,000	LP-4
EC13	Tract 2012002 Install 2- 1 acre grazing exclosures <sup>10</sup>	1/15/14-4/15/14	TT	\$5,000	LP-4

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**Priority Area: Operations and Maintenance**

**Item(s): Agricultural Operations**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
EC14	Tract 2009002 crop oversight	5/15/14 - 10/15/14	TT	N/A	N/A
EC15	Tract 2009005 grazing lease oversight	5/15/14 - 10/15/14	TT	N/A	N/A
EC16	Tract 2012001 haying lease oversight	5/15/14 - 10/15/14	TT	N/A	N/A
EC17	Tract 2012002 grazing lease oversight	5/15/14 - 10/15/14	TT	N/A	N/A
EC18	Tract 2012002 crop share oversight	5/15/14 - 10/15/14	TT	N/A	N/A

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<sup>1</sup> Based on 2013 costs

<sup>2</sup> Approx. 50 hours of in-channel disking at \$200/hr.

<sup>3</sup> Burn unit area of 182 acres at \$60/ac

<sup>4</sup> Engineers estimate from management plan

<sup>5</sup> Based on a cost estimate of \$100/ acre for chemical application and mulching on 200 acres

<sup>6</sup> Based on 2013 costs

<sup>7</sup> Based on 2013 costs

<sup>8</sup> Based on 2013 costs

<sup>9</sup> Based on 2013 costs

<sup>10</sup> Based on 1670 LF of fence at \$3.00/LF

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**Personnel Responsibility Key:**

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Wildlife Biologist)

TT – Tim Tunnell (Land Manager)

JB – Justin Brei (Biosystems Engineer)

JF – Jason Farnsworth (Technical Support Services)

**Property Identification Key:**

2009002 – PRRIP Bartels Tract

2009005 – PRRIP McCormick Tract

2012001 – PRRIP Sullwold Tract

2012002 – PRRIP Johns Tract

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## 2014 Elm Creek Complex Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Adaptive Management & Species Habitat	<i>Tern, Plover and Whooping Crane Habitat Experiments</i>	LP-2	\$14,500
Species Habitat	<i>Whooping Crane Grassland / Wet Meadow Habitat</i>	LP-2	\$130,920
		<b>Subtotal</b>	<b>\$145,420</b>

Operations and Maintenance	Property Maintenance Obligations and Needs	LP-4	\$25,000
		<b>Total</b>	<b>\$170,420</b>

### *Estimated 2014 Revenues*

Priority Area	Item	Estimated Income
Operations and Maintenance	Tract 2009002 Crop income	\$7,930
Operations and Maintenance	Tract 2009005 Grazing Lease Income	\$2,000
Operations and Maintenance	Tract 2012001 Haying lease income	\$3,000
Operations and Maintenance	Tract 2012002 Grazing lease income	\$9,625
Operations and Maintenance	Tract 2012002 Crop income	\$16,000



## 2014 Fort Kearny Complex Annual Work Plan

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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#### General Priorities

- **Good Neighbor Policy** – *Conduct all actions in accordance with Program’s good neighbor policy.*
  - **Complex-Level Planning** – *Development of operations and maintenance plans for Tract 2012003.*
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#### Adaptive Management Priorities

- **Tern and Plover Riverine Habitat Experiment** – *Design of in-channel nesting islands and targeted tree clearing to increase distance to visual obstructions and predator roost habitat.*
  - **Whooping Crane Riverine Habitat Experiment** – *Design of vegetation clearing to provide a range of unobstructed view widths above the Programs minimums.*
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#### Species Habitat Priorities

- **Improve Target Species Sand and Water Habitat** – *Increase available sand and water habitat for species through design and construction of tern and plover and whooping crane experiments, which will create habitat that meets Program criteria.*
  - **Protecting Other Species of Concern** – *Identify presence of and determine methods to protect and/or benefit other species of concern while implementing land-related activities.*
  - **Reduce Known Threats to Target Species** – *Investigate relocation or burial options of power line servicing irrigation wells on Tract 2012003.*
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## Operations and Maintenance Priorities

- **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2008001, 2009001, 2009004, 2010003, and Tract 2012003.
  - **Agricultural Operations** – Development of grazing plan and oversight of grazing lease on Tract 2008001 and Tract 2012003.
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*NOTE: The budget section of this work plan only contains information for work items that are specific to this complex. As such, complex-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.*

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**Priority Area: General**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK1	Coordination of Program land actions with neighboring landowners	1/1/14 – 12/31/14	BS	N/A	N/A
FK2	Initiate development of operations and maintenance plan for Tract 2012003	1/1/14 – 6/1/14	BS	N/A	N/A

**Priority Area: Species Habitat**

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK4	Disking if necessary to provide in-channel vegetation control <sup>1</sup>	9/1/14 – 10/1/14	TT	\$11,000	LP-2

**Priority Area: Species Habitat**

**Item(s): Other Species of Concern**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK6	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
FK7	Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with 2011 land activities	1/1/14 – 4/1/14	TBD	N/A	N/A



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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK8	Tract 2008001 Prescribe burn (117 ac) <sup>2</sup>	3/15/14 – 4/7/14	TT	\$7,020	LP-2
FK9	Tract 2009004 Prescribe burn (205 ac) <sup>3</sup>	3/15/14 – 4/7/14	TT	\$12,300	LP-2
FK10	Tract 2012003 Prescribe burn (67 ac) <sup>4</sup>	3/15/14 – 4/7/14	TT	\$4,020	LP-2

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK11	Tract 2012003 livestock water well & tank <sup>5</sup>	1/1/14 – 6/1/14	TT	\$8,000	LP-4
FK12	Noxious weed control <sup>6</sup>	6/1/14 – 8/31/14	TT	\$5,000	LP-4
FK13	Boundary fence and road maintenance <sup>7</sup>	1/1/14 – 12/31/14	TT	\$9,000	LP-4
FK14	Mowing <sup>8</sup>	8/15/14-9/15/14	TT	\$2,000	LP-4

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

No.	Activities for 2012	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
FK15	Tract 2008001 grazing lease oversight	5/15/14-10/15/14	TT	N/A	N/A
FK16	Tract 2012003 grazing lease oversight and input costs	5/1/14– 10/31/14	TT	N/A	N/A

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<sup>1</sup> Based on 2013 costs

<sup>2</sup> Burn unit area of 117 acres at \$60/AC

<sup>3</sup> Burn unit area of 205 acres at \$60/AC

<sup>4</sup> Burn unit area of 67 acres at \$60/AC

<sup>5</sup> Based on project costs for similar work at Shoemaker Island Complex in 2012

<sup>6</sup> Based on 2013 costs

<sup>7</sup> Based on 2013 costs

<sup>8</sup> Based on 2013 costs

#### **Personnel Responsibility Key:**

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Wildlife Biologist)

TT – Tim Tunnell (Land Manager)

JF – Jason Farnsworth (Technical Support Services)

JB – Justin Brei (Biosystems Engineer)

#### **Property Identification Key:**

2008001 – PRRIP Wyoming Property

2009001 – PRRIP Fox Tract

2009004 – PRRIP Hostetler Tract

2010003 – PRRIP Sherrerd/Clark Easement

2012003 - PRRIP Blessing Tract

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## 2014 Fort Kearny Complex Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Species Habitat	Improve Sand and Water Habitat	LP-2	\$11,000
Species Habitat	Whooping Crane Grassland / Wet Meadow Habitat	LP-2	\$23,340
		<b>Subtotal</b>	<b>\$34,340</b>

Operations and Maintenance	Property Maintenance Obligations and Needs	LP-4	\$24,000
		<b>Total</b>	<b>\$58,340</b>

### *Estimated 2014 Revenues*

Priority Area	Item	Estimated Income
Operations and Maintenance	Tract 2008001 and Tract 2012003 Grazing Income	\$7,610
Operations and Maintenance	Tract 2012003 Cropland income	\$22,200
Operations and Maintenance	Tract 2009001 Hay income	\$7,000
Operations and Maintenance	Tract 2009004 Hay income	\$14,000



## 2014 Shoemaker Island Complex Annual Work Plan

### Platte River Recovery Implementation Program

For More Information Contact: Jerry F. Kenny, [kennyj@headwaterscorp.com](mailto:kennyj@headwaterscorp.com), (308) 237-5728

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#### General Priorities

- **Good Neighbor Policy** – *Conduct all actions in accordance with Program’s good neighbor policy.*
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#### Adaptive Management Priorities

- **Tern and Plover Riverine Habitat Experiment** – *Maintenance of in-channel nesting islands and targeted tree clearing to increase distance to visual obstructions and predator roost habitat*
  - **Whooping Crane Riverine Habitat Experiment** – *Design and implement vegetation clearing to provide a range of unobstructed view widths above the Programs minimums*
  - **Riverine versus Off-Channel Tern and Plover Nesting** – *Monitor tern and plover use and productivity on Program riverine habitat and nearby OCSW habitat.*
  - **Flow-Sediment-Mechanical (FSM) Management Experiment** – *Complete implementation design for FSM “proof of concept” management experiment at Shoemaker Island Complex and implement experiment.*
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## Species Habitat Priorities

- **Improve Target Species Sand and Water Habitat** – Increase available sand and water habitat for species through design and construction of tern and plover and whooping crane experiments that will create habitat meeting Program suitability criteria.
  - **Protecting Other Species of Concern** – Identify presence of and determine methods to protect and/or benefit other species of concern while implementing land-related activities.
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## Operations and Maintenance Priorities

- **Basic Property Maintenance Obligations and Needs** – Fulfill basic property ownership obligations and needs on Tracts 2010004.
  - **Agricultural Operations** – Oversight of grazing and haying leases on Tract 2010004.
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*NOTE: The budget section of this work plan only contains information for work items that are specific to this complex. As such, complex-specific research and monitoring actions are presented but system-scale actions like target species and geomorphology/vegetation monitoring are not.*

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**Priority Area:** *General*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 1	Coordination of Program land actions with neighboring landowners	1/1/14– 12/31/14	BS	N/A	N/A

**Priority Area:** *Species Habitat*

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 2	Disking if necessary to provide in-channel vegetation control <sup>1</sup>	9/1/14 – 10/1/14	TT	\$34,000	LP-2

**Priority Area:** *Adaptive Management*

**Item(s):** *Tern, Plover and Whooping Crane Habitat Experiments*

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 3	Pre-emergent herbicide application on in-channel nesting islands. <sup>2</sup>	3/1/14-4/1/14	TT	\$10,000	LP-2

**Priority Area:** *Adaptive Management*

**Item(s):** *FSM Proof of Concept Management Experiment*

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 4	Implementation of FSM proof of concept management experiment <sup>3</sup>	3/1/14 – 12/1/14	JF	\$339,900	IMRP-5

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**Priority Area: *Species Habitat***

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 5	Tract 2010004 Prescribe burn North ½ -East & West Pastures (254 ac) <sup>4</sup>	3/15/14 – 4/7/14	TT	\$15,420	LP-2
SI 6	Tract 2010004 Prescribe burn-South meadow (56 ac) <sup>5</sup>	3/15/14 – 4/7/14	TT	\$3,360	LP-2

**Priority Area: *Species Habitat***

**Item(s): *Other Species of Concern***

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 7	Habitat and species surveys on properties where work will occur	As Needed	DB	N/A	N/A
SI 8	Coordination with USFWS and NGPC to identify and mitigate potential impacts associated with 2014 land activities	1/1/14 – 4/1/14	TBD	N/A	N/A

**Priority Area: *Operations and Maintenance***

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

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 9	Noxious weed control <sup>6</sup>	6/1/14 – 8/31/14	TT	\$5,000	LP-4
SI10	Boundary fence and road maintenance <sup>7</sup>	1/1/14 – 12/31/14	TT	\$9,000	LP-4
SI 11	Mowing <sup>8</sup>	8/15/14-9/15/14	TT	\$1,000	LP-4

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**Priority Area: Operations and Maintenance**

**Item(s): Agricultural Operations**

No.	Activities for 2014	Target Dates	Person Responsible	Cost (Estimated)	Budget Line Item
SI 12	Tract 2010004 grazing, haying lease oversight	5/15/14-10/15/14	TT	N/A	N/A

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<sup>1</sup> Based on 2013 costs

<sup>2</sup> Based on 2013 costs

<sup>3</sup> See PRRIP Fiscal Year 2014 Budget and Annual Work Plan for details

<sup>4</sup> Burn unit area of 254 acres at \$60/ac

<sup>5</sup> Burn unit area of 56 acres at \$60/ac

<sup>6</sup> Based on 2013 costs

<sup>7</sup> Based on 2013 costs

<sup>8</sup> Based on 2013 costs

**Personnel Responsibility Key:**

BS – Bruce Sackett (Land Specialist)

DB – David Baasch (Wildlife Biologist)

TT – Tim Tunnell (Land Manager)

JF – Jason Farnsworth (Technical Support Services)

JB – Justin Brei (Biosystems Engineer)

**Property Identification Key:**

2010004 – PRRIP Binfield Tract



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## 2014 Shoemaker Island Complex Budget Summary

### *Estimated 2014 Expenditures by Program Budget Line Item*

Priority Area	Item	Budget Line Item	Estimated Expenditure
Adaptive Management & Species Habitat	Tern, Plover and Whooping Crane Habitat Experiments	LP-2	\$44,000
Species Habitat	Whooping Crane Grassland/Wet Meadow Habitat	LP-2	\$18,600
		<b>Subtotal</b>	<b>\$62,600</b>
Adaptive Management	FSM Proof of Concept Management Experiment	IMRP-5	\$339,900
Operations and Maintenance	Property Maintenance Obligations and Needs	LP-4	\$15,000
		<b>Total</b>	<b>\$417,500</b>

### *Estimated 2014 Revenues*

Priority Area	Item	Estimated Income
Operations and Maintenance	Tract 2010004 Grazing and Haying Income	\$38,900