

PLAYA LAKES JOINT VENTURE

***Area Implementation Plan
for the
Central Mixed-grass Prairie
Bird Conservation Region (19)
of Kansas***



PLAYA LAKES
JOINT VENTURE


April 2008

APPROVALS


By adopting this plan, PLJV Kansas partners signify:

- Endorsement of the planning process used to develop these habitat conservation recommendations.
- Recognition that the habitat acreage recommendations are based on a modeling process which sometimes required using sparse data and assumptions.
- Recognition that the overall direction and magnitude of the habitat recommendations are more important than specific acreages.
- Awareness that recommendations for some priority species may be detrimental to others, but that collectively the recommendations are balanced to consider the needs of all species.
- Intent to begin working towards the habitat recommendations and to develop the capacity to deliver habitat conservation at the scale needed.
- Intent to develop and support evaluation initiatives (testing assumptions inherent in the planning process) to facilitate re-planning and improvements to the habitat recommendations in future iterations of this plan.
- Understanding that this plan is dynamic and will be improved and updated with suggestions from PLJV Kansas partners.

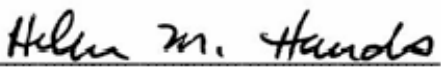
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EXECUTIVE SUMMARY

This Plan presents habitat management recommendations that, if implemented, should allow priority bird species to reach and sustain objective levels in the Central Mixed-grass Prairie Bird Conservation Region of Kansas. The goal of this plan is to *“Determine the quantity, quality, and distribution of habitat needed to maintain bird numbers at levels that satisfy socio-economic desires.”* Management recommendations in this plan are intended to direct attention and resources toward habitats and habitat management actions that are most important for priority bird species. This plan also may help identify new habitat programs or changes to existing programs that are needed to deliver conservation at a scale sufficient to produce positive changes in bird numbers. The primary audience for this plan is habitat program managers and field delivery staff.

The following recommendations represent the major habitat actions (i.e., conversion, restoration, management) needed to bring priority birds to desired levels. Priority bird species that are expected to increase to goal levels as a result of the actions are shown in parentheses, with the primary “driver” species in bold.

- Protect playas from sedimentation by installing grass buffers around playas located in cropland. Restore natural hydrology by filling pits and removing excessive accumulated sediments. Install fences around playa basins to manage livestock grazing (**wetland birds**).
- Restore and/or enhance 30,000 acres of wetlands, primarily playas, floodplain marshes, and moist-soil units (**wetland birds**).
- Increase the area of mixed grass prairie contributing to large blocks of habitat in the southern half of the Area by 2.6 million acres (**Lesser Prairie-Chicken**)
- Convert 1.4 million acres of cropland to CRP (**grassland birds**)
- Increase late successional riparian forest by 40,000 acres (**Baltimore Oriole**)
- Increase native riparian shrubland by 250,000 acres (**Bell’s Vireo**).
- Convert 175,000 acres of cropland to sand sage (**Lesser Prairie-Chicken, Cassin’s Sparrow**)
- Increase sand sage contributing to large blocks of habitat by 75,000 acres (**Lesser Prairie-Chicken**)
- Manage 2.7 million acres of mixed grass for many shrubs (**Loggerhead Shrike, Lark Sparrow**)
- Manage 500,000 acres of tallgrass for many shrubs (**Loggerhead Shrike, Lark Sparrow**)
- Manage 300,000 acres of shortgrass for many shrubs (**Loggerhead Shrike, Lark Sparrow**)

Other important actions to preserve the function of existing habitats also are needed, and are recommended in this Plan. These recommendations are intended for implementation over a 30-year timeframe (2008-2038). Implementing these actions within this timeframe will be a major undertaking, requiring greater commitments of human and fiscal resources in the future than has occurred in the past. By adopting these objectives, we hope and expect that PLJV partners are inspired to redouble their efforts towards bird habitat conservation and management.

BACKGROUND AND INTRODUCTION

This Area Implementation Plan (AIP) is a product of the PLJV biological planning process. It presents habitat management recommendations that, if implemented, should allow priority bird species to reach and sustain objective levels as prescribed by the four national/continental bird conservation initiatives (*North American Waterfowl Management Plan*, *U. S. Shorebird Conservation Plan*, *Waterbird Conservation for the Americas*, and *Partners in Flight*).

Goal, Purpose, and Intended Audience

The goal of this plan is consistent with the goal of PLJV biological planning: ***“Determine the quantity, quality, and distribution of habitat needed to maintain bird numbers at levels that satisfy socio-economic desires.”*** Management recommendations in this plan are intended to direct attention and resources toward habitats and habitat management actions that are most important for priority bird species. This plan also may help identify new habitat programs or changes to existing programs that are needed to deliver conservation at a scale sufficient to produce positive changes in bird numbers. The primary audience for this plan is habitat program managers and field delivery staff.

Plan Format

Habitat management recommendations in this plan are grouped as follows. First, we present recommendations for nonbreeding birds (waterfowl, shorebirds, and waterbirds) and breeding birds (by guild; e.g., grassland birds). In these sections we discuss priority species, abundance trends, seasonal importance of the Area, important habitats and threats to those habitats, abundance targets, planning approach, results of carrying capacity analyses, and specific habitat management recommendations and justification. Details of the carrying capacity analysis are shown in Tables 1 and 2 for all priority species/guilds, including estimated current carrying capacity, and expected carrying capacity after the habitat recommendations are implemented. These sections should be of interest to readers interested in specific birds or bird groups.

Next, we present integrated bird habitat recommendations by habitat. In these sections we explain which birds benefit from recommended management actions, and how birds may be increased or maintained by implementing those actions. We also summarize estimated current habitat acreages, and desired future acreages, in Table 3. These sections should be of interest to readers wanting to know the implications of management actions in a specific habitat to all priority birds.

General Planning Approach

Briefly, we used a process based on principles of *Strategic Habitat Conservation* (USFWS and USGS 2006) to develop habitat management recommendations in this plan. In general, we developed (1) bird abundance targets that are stepped-down from continental objectives in the bird initiatives, and (2) *habitat* objectives that are linked biologically to the abundance targets.

More specifically, we used the following model to estimate current carrying of each habitat for each priority bird species:

$$\text{Birds} = \text{Acres of habitat} * \text{habitat availability factor} * \text{habitat suitability factor} * \text{large block factor} * \text{bird density}$$

The estimated number of birds supported in each habitat is summed, and compared to the bird abundance target. This process quantifies the importance of each habitat to each species. It also quantifies current carry capacity relative to desired carrying capacity, which allows crafting specific habitat acreage recommendations to bring a species to desired levels.

Habitat recommendations herein are only as good as the model inputs used to develop them. Readers interested in providing information to update the model inputs and resulting habitat recommendations are encouraged to contact the PLJV.

Implementation Timeframe

These recommendations are intended for implementation over a 30-year timeframe (2008 – 2038), although some management actions may require longer intervals to develop desired conditions (e.g., creating late successional riparian forest).

Decision Support Tools

The biological planning results and recommendations in this plan are intended to address the question of whether there is enough habitat (in the right quantity and quality) to support desired levels of birds. Another aspect of the planning process (beyond the scope of this plan) can be to delineate specific places on the landscape where habitat work can best benefit priority species. PLJV staff is available to work with partners to develop spatial models and maps (“decision support tools”) as needed. Habitat program managers with specified funding levels, priority species, habitats, or project areas are encouraged to contact PLJV staff to begin developing these tools for targeting habitat dollars for maximum benefit.

Relationship of this Plan to other PLJV Biological Planning Reports

This plan presents detailed habitat recommendations for the Area. It is beyond the scope of this plan to present all the details of the planning process. Some users may want to consult sources of additional information relevant to PLJV biological planning in general, and specifically to the habitat recommendations in this plan:

- *Implementation Planning Guide* (PLJV 2007a). This document describes the PLJV's general approach to biological planning, and describes in detail the *Hierarchical All Bird System* (HABS) database. This database stores the biological data used to model the current carrying capacity of the PLJV for priority birds (e.g., Tables 1 and 2), and to design a landscape that supports desired numbers of all priority bird species.
- *Habitat Assessment Procedures* (PLJV 2006c). This document describes the PLJV's habitat classification system and procedures for estimating acreages of important habitats as shown in this plan (Tables 1 - 3). These acreages were determined from the PLJV's GIS database and additional non-spatial data.
- *Planning Team Reports for Waterfowl* (PLJV 2007b), *Shorebirds* (PLJV 2007c), *Waterbirds* (PLJV 2006b), and *Landbirds* (PLJV 2007d). These reports present details on priority species selection, determining important seasonal use periods, developing abundance and vital rate targets, determining limiting factors, and describing the planning approach used to develop habitat objectives. Consult these reports for background and justification for the carrying capacity model parameters shown in Tables 1 and 2.

Plan Updates

Consistent with the principles of adaptive management, this plan is intended to be dynamic. It will be updated as new bird and habitat information becomes available, to accommodate changes in strategic direction for habitat conservation, or as otherwise desired by PLJV partners and staff. Interested users of this plan should check the PLJV web site (www.pljv.org) for updates.

NONBREEDING BIRDS

Waterfowl

This Area is primarily important to migrating and wintering waterfowl. Although several species of waterfowl also breed in the Area, they are at low densities relative to primary waterfowl breeding areas. During the nonbreeding seasons, waterfowl must obtain enough food resources to maintain body condition during winter, and increase body condition during fall and spring for subsequent migration. Studies have shown that birds in better body condition survive at higher rates during the nonbreeding seasons. Waterfowl can best meet energetic and nutritional needs through native foods provided in wetland habitats. Agricultural habitats are the primary foraging

habitats for geese and also are used by ducks for supplementing native foods and when wetlands are unavailable due to drought, ice cover, etc. However, the PLJV Waterfowl Team decided to exclude agricultural habitats from spring and fall bioenergetic models. Agricultural habitats should be included in spring and fall in future iterations of waterfowl planning in the PLJV.

Priority waterfowl species for this Area include Northern Pintail, Mallard, and Greater White-fronted Goose (Midcontinent Population) for the nonbreeding seasons only. However, the PLJV used a bioenergetics approach to habitat conservation planning, which assumes foraging habitat is the primary factor limiting waterfowl abundance, body condition, and survival. This approach assesses foraging habitat availability versus energetic demands of priority species and all other waterfowl species common to the region. Therefore, habitat needs of all nonbreeding waterfowl species are included in the habitat recommendations.

Waterfowl abundance targets for the Area include approximately 521,000 ducks and 53,000 geese during midwinter (early January). For bioenergetics planning purposes, waterfowl abundance targets were translated to “use-days” for three seasons during the nonbreeding period: fall (Sep. – mid-Dec.), winter (mid-Dec. – mid-Feb.), and spring (mid-Feb – Apr.) Use-day targets are approximately 42 million for fall, 42 million for winter, and 71 million for spring.

Based on the PLJV GIS, the top three waterfowl foraging habitats are emergent marsh (estimated approx. 74,000 acres), floodplain marsh (estimated approx. 49,000 acres), and saline wetlands (estimated approx. 13,000 acres) (Table 1). Habitat assessments and bioenergetics modeling suggested that this Area can support the foraging use-day objectives for all seasons.

However, there are reasons to believe that foraging habitat actually may be insufficient in this Area. First, GIS data may have overestimated acreages of important wetlands. Acreages of floodplain marshes (Tables 1 and 3) seem unrealistically high based on knowledge of local field staff. This should be addressed for future iterations of this plan through an accuracy assessment of GIS data. Second, midwinter survey data show that the highest duck numbers during the past 10 years have been 60% below the abundance targets for this Area (KDWP unpubl. data).

Therefore, as a provisional goal we recommend increasing suitable wetland habitat by 50% to ensure that waterfowl are not limited by foraging habitat in this Area. Considering the foraging value of various wetland types (see Table 1), this could be accomplished by restoring or enhancing 122,851 acres of playas, 39,356 acres of floodplain marsh, 12,451 acres of moist-soil units, or some combination. As an interim target we recommend restoring or enhancing 28,732 acres of these wetlands in combination.

Shorebirds – Wetland Guild

Migratory shorebirds use this Area primarily from July through October for summer-fall migration, and from April through May for spring migration. During migration, shorebirds must obtain enough food resources to maintain and increase body condition. Most migratory shorebirds meet energetic and nutritional needs primarily through invertebrate foods obtained in wetland habitats, although other foods are used (e.g., some seeds).

Priority shorebirds in this guild include Snowy Plover, Piping Plover, American Avocet, Long-billed Curlew, Hudsonian Godwit, Semipalmated Sandpiper, Least Sandpiper, White-rumped Sandpiper, Baird's Sandpiper, Pectoral Sandpiper, Stilt Sandpiper, and Long-billed Dowitcher. However, the PLJV used a bioenergetics approach to habitat conservation planning, which assumes foraging habitat is the primary factor limiting shorebird abundance, body condition, and survival. This approach assesses foraging habitat availability versus energetic demands of priority species and all other migrant shorebird species (approx. 30 total species) common to the region. Therefore, habitat needs of all migrant, wetland-foraging shorebird species were considered during habitat conservation planning.

Existing shorebird survey data for this Area, probably the most complete in the entire PLJV, were used to develop an abundance target of approximately 25 million use-days, which includes abundance increases recommended in the U.S. Shorebird Conservation Plan. The top three wetland shorebird foraging habitats are emergent marsh (estimated approx. 74,000 acres), saline wetlands (estimated approx. 13,000 acres), and floodplain marsh (estimated approx. 49,000 acres) (Table 1). Habitat assessments and bioenergetics modeling suggested that existing wetland habitats in this Area can support only about 36% of this abundance target (approx. 16 million use-day deficit).

This Area needs additional wetland foraging habitat to support its migrant shorebird objectives. To accomplish this, we recommend restoring 21,008 acres of wetlands and managing specifically for shorebirds (very shallow water, mudflats, and sparse vegetation). This will provide approximately 16 million additional shorebird use-days and will bring the Area to desired carrying capacity. These acres should be in areas away from Cheyenne Bottoms and Quivira, such as Jamestown and McPherson, where shorebird densities currently are lower.

Others actions recommended to benefit shorebirds include maintaining or increasing the quantity and quality of saline wetlands and floodplain marshes, which provide important foraging habitat.

Waterbirds

Priority nonbreeding waterbirds include Eared Grebe, Western Grebe, American White Pelican, Sandhill Crane, Whooping Crane, Franklin's Gull, Forster's Tern, and Black Tern. Similar to waterfowl and shorebirds, nonbreeding waterbirds must obtain enough food resources to maintain body condition during winter, and increase body condition during fall and spring for subsequent migration. Waterbirds meet energetic and nutritional needs primarily through foods provided in wetland and aquatic habitats. However agricultural habitats also are used by gulls and are the primary foraging habitats of sandhill cranes.

The Area is important to migrating and wintering Sandhill Cranes, and is an important stopover area for Whooping Cranes. Abundance targets for cranes were developed by stepping down objectives from existing plans (*Central Flyway Plan* for Sandhill Cranes and the *International Recovery Plan* for Whooping Cranes). Sandhill Crane abundance targets are approximately 1.7 million use-days in fall, 553,000 use-days during winter, and 950,000 use-days in spring. The

Whooping Crane abundance target is 5,477 use-days in both fall and spring. However, targets calculated by the PLJV do not correspond with survey data in Kansas. Using sandhill crane migration chronology from survey data (KDWP unpubl. data) yields the following use-day targets: 3.3 million in fall, 228,000 in winter, and 177,000 in spring. Similarly, based on migration chronology from observation data (USFWS unpubl. data), 74% of whooping cranes occur in Kansas BCR 19 during fall.

In this Area, the most important wetland types for roosting cranes are wet meadows, emergent marshes, and floodplain marshes (Table 1). Wet meadows (estimated approx. 1.2 million acres) can provide important crane foraging habitat. However, the quality of existing wet meadows is suspect due to reductions in hydroperiod (reduced stream flows caused by water impoundments and diversions, irrigation, infestations of exotic hydrophytes, etc.) and sandhill cranes primarily feed in crop fields (mainly harvested corn and green wheat). Emergent marshes and floodplain marshes (estimated approx. 74,000 and 49,000 acres, respectively) also provide foraging and roosting sites.

PLJV habitat assessments and bioenergetics modeling suggested that this Area can support the use-day objectives for cranes during all seasons (Table 1). However, GIS acreage estimates of important wetland habitats and use-day targets need to be revised. The degraded and declining state of many wetlands in the Area calls for restoration and protection efforts. Wetland degradation at sites other than Quivira and Cheyenne Bottoms may be causing cranes to concentrate at those sites. Wet meadows and floodplain marshes should be restored by controlling hydrophytes (exotic and native), increasing in-stream flows (e.g., through water use and management policies) where possible, and actively managing water levels (e.g., developing impoundments with water management capabilities) if necessary. For other wetland types, recommendations described above for shorebirds also will benefit cranes.

For other priority waterbird species (grebes, pelicans, gulls, and terns), we lacked any meaningful information to relate abundance and/or vital rates to habitat conditions. Therefore, we defer developing abundance targets and habitat objectives for these species until such information becomes available. However, we note that conservation recommendations were made for wetland habitats used by these species during the PLJV planning process for nonbreeding shorebirds and cranes. Until more explicit planning can be conducted, we assume that fulfilling habitat needs for shorebirds and cranes will also fulfill habitat needs for other nonbreeding waterbirds.

BREEDING BIRDS

In addressing the needs of priority landbirds for this Area, the PLJV assumed that providing the habitat needs for breeding landbirds would also provide the habitat needs for migrant and wintering landbirds. Secondly, we assumed that appropriate breeding habitat was the primary limiting factor for breeding grassland birds. The planning approach assigned a density to each condition of every habitat that a priority species occupied, developed an estimation of current carrying capacity for each priority species, evaluated trends (for the entire BCR 19; Sauer et al. 2005) to determine those species with statistically significant declining trends, and then used

those trends to determine a number of birds needed to bring a species up to goal by calculating the birds lost over the last thirty years and adding to the current estimated carrying capacity. Species with trends which did not fit our data quality requirements or with significant positive trends were assigned a goal of maintaining the current carrying capacity. If data quality increases for any non-significantly declining species in the future, the trend will be utilized to determine a population goal at that time.

For some species when data dictated an abundance goal greater than 100% of the current estimated numbers, a goal of doubling was utilized. For this Area, the species with negative trends greater than 2.3% per year were Greater Prairie-Chicken, Mississippi Kite, Swainson's Hawk, Short-eared Owl, Western Kingbird, Bell's Vireo, Loggerhead Shrike, Cassin's Sparrow, Henslow's Sparrow, Lark Bunting, and Lark Sparrow. The abundance goal for Lesser Prairie-Chicken was determined by the Kansas representative to the Lesser Prairie-Chicken Interstate Working Group (R. Rodgers, *pers. comm.*).

Grassland Guild

Grasslands comprise the largest portion of the remaining native habitat acreage in the Area. Grasslands here support priority species such as Greater and Lesser Prairie-Chicken; Swainson's Hawk; Western Kingbird; Loggerhead Shrike; Cassin's, Lark and Grasshopper Sparrow; Lark Bunting; and Eastern Meadowlark. As a guild, grassland birds are declining more rapidly than any other group of landbirds.

The grassland bird guild includes both those species that need primarily grass and those that require shrubs within a grassland matrix. The species that drive this Area's mixed-grass prairie needs are those that reach their highest densities with larger proportions of shrub cover within grassland, such as Loggerhead Shrike and Lark Sparrow. However, this comes at the cost of birds which reach higher densities in grasslands with fewer shrubs. Balancing these needs has not yet been undertaken by the PLJV. Should state partners decide that managing grasslands for fewer shrubs is preferable, the recommendations in this plan will change.

Threats to grassland habitats overall include:

1) Fire suppression, which permits the encroachment of eastern redcedar. This has had a deleterious effect on those species which require grasslands with little tall, woody structure;

2) Conversion to agriculture. Although many agricultural crops are utilized by some priority birds to some extent, utilization by crop seed eaters tends to be at lower densities, often significantly lower. Additionally, the extent to which crop maintenance and harvesting affects productivity has not been well-established for some species. For others, such as Short-eared Owl, Busby and Zimmerman (2001) mention that croplands are often an "ecological trap", producing no birds. The extent of agricultural conversion on the landscape may also be a factor, as Lesser Prairie-Chickens thrived with small-scale agriculture adjacent to nearby grass/shrub prairie, but in recent decades with large-scale conversion to agriculture they have declined. Likewise, the extent to which unutilized agricultural lands remain fallow or are converted back to native grasses (CRP) will have an effect on some species, such as Ring-necked Pheasant, Northern Bobwhite, and Dickcissel, though these effects have not been well quantified;

3) Ironically, too much fire in the eastern portion of the Area, especially in tallgrass areas, ensures that grass will never attain the tall stature required for some species such as Greater Prairie-Chicken and Henslow's Sparrow.

The advent of CRP in the 1985 Farm Bill has helped to increase numbers of many grassland birds. Recent literature has shown that the seed mixtures used in various CRP fields and the ultimate field species composition greatly influences the bird community utilizing those fields. Programs which may allow increased management of CRP fields, such as burning or short-term grazing as well as interseeding with forbs or native shrubs, may greatly increase use by priority grassland birds. CRP acreage recommendations in this plan are being driven by the needs of Grasshopper Sparrow. However, Dickcissel also has the highest percentage of its population modeled as occupying this habitat type; over 34% of the carrying capacity of the entire Area is found in CRP. Further, the placement of CRP near smaller grassland patches (1,000 – 1,800 acres) can render those patches suitable for prairie-chickens. CRP can help create grassland patches that are greater than 2,000 acres, which fits the PLJV model for both Lesser and Greater Prairie-Chicken. Model constraints are: 1) no more than 3,000 acres of cropland, 2) no more than 50 acres of trees and 3) no more than 50 acres of smaller roads. The PLJV can help to pinpoint where the placement of additional CRP on the landscape may have the maximum benefit for these birds.

Tallgrass prairie is estimated at 818,748 acres. It is essential to the maintenance of such species as Henslow's Sparrow, and Eastern Meadowlark as well as species such as Upland Sandpiper and Greater Prairie-Chicken whose goal is only to maintain the current numbers.

Shortgrass is estimated at 464,169 acres and thus provides little of the overall objectives for most grassland birds in this Area. However, it is currently modeled as providing most of the numbers of Cassin's Sparrow and Lark Bunting in this Area.

A number of priority grassland species are not projected to meet goal based on recommendations in this plan. These are Swainson's Hawk, Western Kingbird, Scissor-tailed Flycatcher, Loggerhead Shrike, Lark Bunting, Lark Sparrow and Eastern Meadowlark. Regardless, we encourage implementing the actions recommended below while partners determine what further habitat work is possible and the models and assumptions are further evaluated (see Special Note below).

Specific recommendations are as follows:

Swainson's Hawk has declined in the last 30 years at an average rate of 4.0% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Swainson's Hawk occurs across many of the habitat types below. All the recommendations presented in the Integrated Section, if fully implemented, based on the model, meet only 57% of the goal.

Loggerhead Shrike has declined in the last 30 years at an average rate of 3.9% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is

due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal, which is consistent with the PIF goal of doubling the population. Recommended actions are:

- 1) Convert 1,375,860 acres of cropland to CRP or a CRP-like habitat, providing 2,052 additional birds;
- 2) Manage mixed grass prairie so that 766,048 additional acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 1,608 birds. PLJV estimates that 1,909,758 acres are in this condition currently; and
- 3) Manage tallgrass prairie so that additional 81,875 acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 524 birds. PLJV estimates that 409,374 acres are in this condition currently;
- 4) Manage shortgrass prairie so that 46,417 additional acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 252 birds. PLJV estimates that 232,084 acres are in this condition currently.

These recommendations, fully implemented, are modeled to meet only 62% of the goal.

Short-eared Owl has declined over the last 30 years at an average rate of 4.6% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

- 1) Convert 760,000 acres of cropland to CRP or CRP-like habitat, providing 731 birds;
- and
- 2) Restore 21,008 acres of wetlands from cropland, providing 11 birds.

Scissor-tailed Flycatcher has declined over the last 30 years at an average rate of -2.3% per year in BCR 19. This rate of decline requires a doubling of the population. The recommendations, fully implemented, in the rest of this plan are modeled to meet only 38% of the goal.

Lark Sparrow has declined in the last 30 years at an average rate of 2.5% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

- 1) Manage mixed grass prairie so that 766,048 additional acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 89,168 birds. PLJV estimates that 1,909,758 acres are in this condition currently;
- 2) Convert 177,000 acres of cropland to sand sage, providing an additional 25,133 birds;
- 3) Manage tallgrass prairie so that additional 40,936 acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar) and short (<15cm) grass, providing an additional 4,765 birds. PLJV estimates that 204,687 acres are in this condition currently; and
- 4) Manage shortgrass prairie so that 46,417 additional acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 1,858 birds. PLJV estimates that 232,084 acres are in this condition.

These recommendations, fully implemented, are modeled to meet only 72% of the goal.

There is high concern about past Lesser Prairie-Chicken declines (Davis et. al 2006). The current PLJV Lesser Prairie-Chicken model requires areas with native mixed grasses and at least 1,000 acres of sand sage within a 5,000-acre block that also contains no more than 1) 3,000 acres of cropland, 2) 50 acres of roads (and no 4-lane roads), and 3) 50 acres of woodland types. Recommended actions for this species are:

1) Increase the amount of mixed grass prairie in the southern half of the Area, so that 2,597,270 acres contribute to large blocks (>2,000 acres) of habitat, providing an additional 15,036 birds. Currently the PLJV estimates that 1,394,123 acres contribute to large blocks of habitat;

2) Increase the amount of CRP by 150,000 acres in the southern half of the Area. Reconfigure the resultant acres so that 1,089,640 acres contribute to large blocks (>2,000 acres) of habitat, providing an additional 4,542 birds. Currently the PLJV estimates that 362,910 acres contribute; and

3) Increase the amount of sand sage in the southern half of the Area so that 75,890 acres contribute to large blocks (>2,000 acres) of habitat, providing an additional 187 birds. Currently the PLJV estimates that 63,916 acres contribute to large blocks.

It is unclear at this point, whether the aggressive acreage recommendations above can be configured within the southern half of the Area. The PLJV will work with Kansas partners to refine the model for Lesser Prairie-Chicken, and the current acreage recommendations will likely change in the future.

Western Kingbird has declined in the last 30 years at an average rate of 2.4% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended action is to convert 1,375,860 acres of cropland to CRP or a CRP-like habitat, providing 69,944 additional birds (given the recommended actions in the rest of the document). However, all the recommendations presented in the plan, if fully implemented, are modeled to meet only 60% of the goal.

Grasshopper Sparrow has declined in the last 30 years at an average rate of 1.4%/yr in BCR 19. Recommended action is to convert 1,375,860 acres of cropland to CRP or a CRP-like habitat, providing 862,759 birds bringing the species to goal.

Eastern Meadowlark has declined over the last 30 years at an average rate of 1.1% /yr. in BCR 19. Recommended action is to convert 1,375,860 acres of cropland to CRP or a CRP-like habitat, providing 45,734 birds. However, all the recommendations presented in this plan, if fully implemented, are modeled to meet only 76% of the goal.

Henslow's Sparrow has declined in the last 30 years at an average rate of 7.9% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

1) Add or manage 33,026 additional acres of tallgrass prairie so that it contributes to large blocks of habitat, providing 3,808 additional birds. The PLJV estimates that 31,112 acres of tallgrass prairie contribute to large blocks of habitat. The current model requires at least 200 acres of grass types with no woodlands, trees or other habitat types.

2) Ensure that approximately 2,500 acres (in approx. 75-acre patches) are burned on a rotational basis with no patch being burned more frequently than about every 4-5 years, to maintain appropriate tallgrass conditions for Henslow's Sparrow.

Lark Bunting has declined in the last 30 years at an average rate of 5.7% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. However, the recommendations presented in this plan, if fully implemented, are modeled to meet only 59% of the goal. We recommend working toward these acreage goals while partners determine what further habitat work is possible and the models and assumptions are further evaluated.

Shrubland Guild

Shrublands of sand sage comprise little of the Area's land base. However, these shrublands are important to priority species such as Lesser Prairie-Chicken, Scaled Quail, and Cassin's and Lark Sparrow.

Threats to this shrub type are that it is relatively easily converted to cropland and not seen as highly productive wildlife habitat. However, even though agricultural lands are utilized by some priority birds to some extent, sand sage is critical to the maintenance of species such as Cassin's Sparrow and Scaled Quail in the Area.

Habitat recommendations are to increase the amount of sand sage by 177,000 acres.

Cassin's Sparrow has declined in the last 30 years at an average rate of 3.6% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

1) Convert 177,000 acres of cropland to sand sage in the western portion of the Area, providing 10,484 additional birds. Currently the PLJV estimates that there are 261,322 acres of sand sage; and

2) Manage shortgrass prairie so that 46,417 additional acres have many shrubs (3 - 10% shrub cover; this does not include eastern red cedar), providing an additional 924 birds. PLJV estimates that 232,084 acres are in this condition currently. This will bring the species up to goal.

Riparian Guild

Riparian areas, estimated at 1,362,594 acres, comprise approximately 5% of the land base in this Area, and are important to priority species such as Mississippi Kite, Red-headed Woodpecker, Bell's Vireo, Painted Bunting, and Baltimore Oriole. Of the breeding riparian-associated landbirds with statistically significant declining trends in BCR 19, Bell's Vireo and Baltimore Oriole are driving habitat recommendations.

Habitat goals are to increase the amount of late successional riparian forest (>30 years of age with decadent trees) by 37,062 acres and to increase native riparian shrubland by 251,398 acres.

However, current PLJV GIS has not evaluated native riparian shrubland that has been invaded by eastern redcedar or, in the western portion of the Area, by salt cedar (tamarisk) or Russian olive. In order to maintain species such as Bell's Vireo or Painted Bunting at objective levels, invasive riparian shrubland should be restored to native riparian shrubs comprised of willow and others.

Mississippi Kite has declined in the last 30 years at an average rate of 2.9% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

- 1) Increase the amount of late successional riparian forest by 9,059 acres, which will provide an additional 6,284 birds. Currently the PLJV estimates that 4,057 acres are in this condition within Mississippi Kite range. Both these recommendations should be filled within the range of Mississippi Kite in the southern tier of counties and the southeastern quadrant of the Area.

Bell's Vireo has declined in the last 30 years at an average rate of 3.9% per year across BCR 19, meaning more than 50% of the population has been lost. We assume that the decline is due to loss of habitat and that a more than doubling of habitat is needed to meet the population goal which is consistent with the PIF goal of doubling the population. Recommended actions are:

- 1) Increase native riparian shrubland by 251,398 acres, providing 57,488 additional birds. Currently the PLJV estimates acreage of this condition at 11,582 acres; and

- 2) Manage mixed and tallgrass prairie in areas of rolling topography so that drainage bottoms contain dense thickets of shrubs such as plum. The PLJV has not modeled topography and there is no determination on how it might affect bird numbers, but this work would reduce the number of acres of riparian shrubland needed. Changes to these recommendations may occur if/when the PLJV can model shrubs within draws of upland areas.

Baltimore Oriole has declined over the last 30 years at an average rate of 1.1% /yr. in BCR 19. Studies in South Dakota have demonstrated that densities increase with increasing riparian forest age. Recommended action is to increase the amount of late successional riparian forest by 37,062 acres, which will provide an additional 38,432 birds. This will bring the species to goal.

Habitat Generalists

Ring-necked Pheasant is a high priority species in this Area. Because the species does not exhibit a declining trend in the BCR, there are no specific habitat recommendations. However, recommended habitat actions for other priority species should improve carrying capacity for pheasants by approximately 50% (see Table 2).

Special Note

Several breeding species in this Area are not projected to reach goal even if all the habitat recommendations are implemented. Potential problems with the available landcover data for this Area may partly explain this.

For example, we have evaluated the landcover from Oklahoma GAP and a newer landcover layer of eastern red cedar (ERC) developed by Oklahoma NRCS covering several counties in BCR 19 (over 4.5 million acres and just over 25% of the entire BCR). The images used for analysis in Oklahoma GAP were mostly taken in 1992 and the images for the ERC layer were taken in 2004, a gap of twelve years. We overlaid the older Oklahoma GAP layer with the newer ERC layer and, determined those areas originally classified as non-woodland and currently classified as ERC. The chart below lists various habitats and conditions, % converted to eastern red cedar and the average loss (divided by 12) of habitat per year.

Association	% converted to ERC	Avg. Loss per year
Pasture	9.17%	0.764%
Mixed Grass	15.71%	1.309%
Native riparian shrubland	18.40%	1.533%
Tallgrass	12.29%	1.024%
Wet meadow	20.38%	1.698%
Riparian canopy	20.46%	1.705%
Sand Sage	24.50%	2.042%
Riverine Systems	26.47%	2.205%
Shinnery	37.19%	3.099%

These rates of conversion, if they hold true for Kansas, would have a large effect on the numbers used in determining habitat goals for breeding landbirds. If corrected habitat acreages were run back through PLJV models, it would reduce the current estimated carrying capacity of most priority birds, reduce the goal for the species and conversely, increase the amount of habitat that could be converted from ERC to an appropriate condition for each species, perhaps allowing the species to achieve goal populations or get significantly closer.

These data are only preliminary and have not been incorporated into PLJV modeling. But given the current inability to achieve some bird goals, partners may wish to incorporate these data into the PLJV planning process in the future to achieve a more realistic picture of habitat needs for the Area.

INTEGRATED BIRD HABITAT RECOMMENDATIONS

(By Association)

Cropland

Convert 1,573,868 acres of cropland to CRP (1,375,860 acres), sand sage (177,000 acres, representing a 68% increase) and restored wetlands (21,008 acres) to support a variety of species and guilds.

CRP

Convert 1,375,860 acres of cropland to CRP or a CRP-like habitat. This will help support species such as Short-eared Owl, Grasshopper Sparrow, and Eastern Meadowlark.

At least 150,000 acres of CRP should be within Lesser Prairie-Chicken range in the southwestern portion of the Area. All CRP acres should be evaluated and then configured so that 1,089,640 acres contribute to large blocks of habitat for Lesser Prairie-Chicken (see Lesser Prairie-Chicken model). Currently the PLJV estimates that 362,910 acres contribute to large blocks in this Area.

Wherever possible, combat eastern redcedar invasion into this habitat. Develop programs to manage CRP for combating eastern redcedar invasion.

Mixed Grass

Wherever possible, combat eastern redcedar invasion into this habitat.

Increase mixed-grass prairie contributing to large blocks of habitat for Lesser Prairie-Chicken by 2,597,270 acres (a 186% increase) in the southern half of the Area. Currently the PLJV estimates that 1,394,123 acres contribute to large blocks of habitat.

Manage mixed-grass prairie so that 766,048 additional acres contain 3-10% shrub cover (shrubs here do not include eastern red cedar) for Lark Sparrow and Loggerhead Shrike. PLJV estimates that 1,909,758 acres are in this condition currently.

Other

No specific recommendations.

Other Wetlands

Restore 21,008 acres of wetlands (preferably from converted cropland) and manage for optimum shorebird foraging suitability (mudflats and very shallow water with minimal emergent cover) by grazing, burning, brush removal, water level management, etc. These acres should be in areas away from Cheyenne Bottoms and Quivira, such as Jamestown and McPherson, where shorebird densities currently are lower. This will provide about 16.1 million additional shorebird foraging use-days and will bring the carrying capacity of the region to the objective level. Emergent marshes currently support more shorebird foraging use-days than any other habitat, but could support much more with additional restoration and management. The Area is below desired carrying capacity for shorebirds. An additional 7-8,000 acres need to be restored or enhanced to reach the overall provisional wetland goal of restoring and enhancing 28,732 acres of wetlands, which include playas, moist-soil units, emergent marshes, and floodplain marshes, is unknown at this time.

Maintain/increase the quantity and quality of saline wetlands. This habitat provides important foraging habitat for shorebirds, and the Area is below desired carrying capacity.

Protect known colonial waterbird colonies (i.e., active rookeries) and areas where marsh birds breed.

Playa

Protect playas (estimated 25,322 acres, of which only 2,280 are estimated to be unpitted and wet during an average year) from further sedimentation by installing grass buffers around playas located in cropland. Buffer width, species composition, and management should be carefully considered to protect playas from sedimentation yet allow overland water flow to reach the basin. Restore natural hydrology by filling pits and removing excessive accumulated sediments. Install fences around playa basins to manage livestock grazing. Consider double-fencing (a fence around the playa basin and another around the upland buffer) to allow grazing in the uplands while protecting moist-soil plants for waterfowl. Avoid fencing playas in areas known to be occupied by Lesser Prairie-Chickens to reduce collision risks. Additional acres of playas should be restored and enhanced as part of the overall wetland goal (28,732), which includes moist-soil units, emergent marshes, and floodplain marshes. Restoration and enhancement should include water management so that sufficient wet playas are available to meet wetland bird goals.

Reservoirs, Lakes, and Ponds

Improve stock pond (estimated 49,648 acres) foraging habitat by fencing cattle from the shallow upper ends or instituting other grazing strategies that allow emergent vegetation to flourish in shallow water. The shallow areas of reservoirs (estimated 96,455 acres) should be managed to provide open muddy or sandy edges with minimal emergent vegetation. Ensure appropriate

water levels to maintain this type of habitat. These habitats support wetland birds.

Maintain colonial waterbird nesting sites (i.e., occupied rookeries) often found around these habitats.

Riverine Systems

Across the Area, increase the amount of late successional riparian forest by 37,062 acres for Baltimore Oriole. If 9,059 acres are in the southeastern quadrant of the Area and the entire southern tier of counties, it will support Mississippi Kite.

Increase native riparian shrubland by 251,398 acres to support Bell's Vireo. Currently the PLJV estimates acreage of this condition at 11,582 acres.

The two recommendations above must come at the expense of other habitats or conditions. For this plan we have opted to take these acres out of wet meadow (estimated approx. 1.2 million acres currently). Wherever else wet meadow exists, we recommend restoration by controlling exotic hydrophytes, increasing in-stream flows (e.g., through water use and management policies) where possible, and actively managing water levels (e.g., developing impoundments with water management capabilities) if necessary.

Maintain and/or restore floodplain marshes.

Protect known colonial waterbird colonies (i.e., occupied rookeries) and areas where marsh birds breed.

Sand Sage

Convert 177,000 acres of cropland to sand sage in the western portion of the Area to support Cassin's Sparrow and Lesser Prairie-Chicken.

Increase the acreage of sand sage that contributes to large blocks of habitat for Lesser Prairie-Chicken by 75,890 acres (a 119% increase, see Lesser Prairie-Chicken model). Currently the PLJV estimates that 63,916 acres contribute.

Shortgrass

Manage shortgrass prairie so that 46,417 additional acres contain 3-10% shrub cover (shrubs here do not include eastern red cedar) for Loggerhead Shrike, Cassin's and Lark Sparrow.

Tallgrass

Add or manage 33,026 additional acres (a 106% increase) of tallgrass prairie so that it contributes to large blocks of habitat for Henslow's Sparrow. The PLJV estimates that 31,112 acres of tallgrass prairie currently contributes to large blocks of habitat.

Manage tallgrass prairie so that 40,936 additional acres contain 3-10% shrub cover (shrubs here do not include eastern red cedar) and low grass (<15cm) for Lark Sparrow and Loggerhead Shrike. PLJV estimates that 204,687 acres are in this condition currently.

NEXT STEPS

This plan identifies broad-scale, long-term habitat goals that are expected to provide significant benefits to priority bird species in the planning Area. To make significant progress toward these goals, shorter-term objectives need to be identified with specific actions outlined. This will require more significant interaction with local partners to identify specific processes which can be implemented to reach plan goals. The next steps envisioned for successful implementation of this Plan include:

- Work with local land managers and land owners to implement on-the-ground habitat actions that forward the goals stated in this Plan.
- Coordinate with resource management agencies, conservation organizations, and local working groups to use existing programs to direct programmatic resources to forward the goals stated in this plan. Develop new programs to fill gaps as needed.
- Address policy-level issues at local, state, and national levels to ensure that beneficial conservation opportunities continue or are improved (e.g., CRP, NAWCA, etc.)
- Develop spatially-explicit models and other decision support tools to provide better direction regarding the type and location of habitat actions that will provide the greatest benefit for priority bird populations.
- Evaluate the importance of certain wetland types, especially floodplain marshes, emergent marshes, and wet meadows for waterfowl, shorebirds, and waterbirds. Emphasize the foraging value of these habitats, and the accuracy of current acreage estimates from GIS.
- Consider alternative approaches to waterfowl carrying capacity modeling, e.g., consider geese as a separate guild from ducks and incorporate spatial crop data into the model when it becomes available in Kansas.
- Consider incorporating local crane migration chronology data into the crane population objectives. Data used for this plan may be overestimating the importance of this Area for cranes during spring and underestimating it for fall.

RECOMMENDED READING

- Busby, W.H. and J.L. Zimmerman. 2001. Kansas Breeding Bird Atlas. University Press of Kansas, Lawrence, KS. 466pp.
- Davis, D. M., H. Whitlaw, R. Horton, R. D. Rodgers, and E. Odell. 2006. Lesser Prairie-Chicken Conservation Initiative. Lesser Prairie Chicken Interstate Working Group. Unpublished Report. New Mexico Department of Wildlife, Santa Fe, New Mexico, USA.
- PLJV. 2006a. PLJV master plan, v. 2.4. 31pp.
- PLJV. 2006b. Waterbird team report, v. 1.0. Technical companion document to the PLJV Implementation Planning Guide. 17pp.
- PLJV. 2006c. Habitat assessment procedures, v. 2.0. Technical companion document to the PLJV Implementation Planning Guide. 37pp.
- PLJV. 2007a. PLJV implementation planning guide, v. 2.0. 38pp.
- PLJV. 2007b. Waterfowl team report, v. 2.0. Technical companion document to the PLJV Implementation Planning Guide. 34pp.
- PLJV. 2007c. Shorebird team report, v. 3.0. Technical companion document to the PLJV Implementation Planning Guide. 48pp.
- PLJV. 2007d. Landbird team report, v.1.0. Technical companion document to the PLJV Implementation Planning Guide.
- Sauer, J. R., J. E. Hines, and J. Fallon. 2005. The North American Breeding Bird Survey, Results and Analysis 1966 - 2005. Version 6.2.2006. [USGS Patuxent Wildlife Research Center](#), Laurel, MD
- USFWS and USGS. 2006. Strategic habitat conservation. Final report of the National Ecological Assessment Team. 45pp.

GUIDELINES FOR INTERPRETING THE TABLES

Tables 1 and 2

These tables show the carrying capacity models for each priority bird species/guild and are intended to show the details of the model parameters. Carrying capacity is shown for each Association/Condition (i.e., habitat type); under each, the top line shows estimated current

habitat conditions and the bottom line shows desired future habitat conditions per recommendations in this Plan (note any acreage changes). The population goal is shown and carrying capacity is expressed as percent of goal. Some nonbreeding birds have separate goals and carrying capacities for multiple seasons (e.g., fall, winter, spring). The post-planning sum over all habitats should show each priority species/guild at or above 100% of goal unless otherwise noted.

Carrying capacity for each Association/Condition is estimated as (also see General Planning Approach section in this Plan, and the PLJV Implementation Planning Guide):

$$\text{Carrying Capacity} = \text{Condition Acres} * \text{Availability} * \text{Suitability} * \text{Large Block} * \text{Units}$$

Note: Decimal places for some parameters (e.g., Condition Acres) are carried further in the HABS database than shown in this table. So, some rounding errors will occur when multiplying these parameters manually.

Explanation of Column Headings

Assoc Name: “Association Name”; broad level PLJV habitat classification.

Condition Name: Finest level PLJV habitat classification.

Condition Acres: Acreage estimate of this habitat using GIS and other data sources.

Avail.: “Availability Factor”; estimated proportion of Condition Acres that are available to a priority bird/guild (e.g., proportion of acreage within bird’s breeding range, proportion not frozen in winter, etc.).

Suit.: “Suitability Factor”; estimated proportion of Condition Acres that are suitable for a priority bird/guild (e.g., proportion of acreage shallow enough for efficient foraging by wetland birds, etc.).

Large Block: “Large Block Factor”; estimated proportion of Condition Acres that are in block sizes sufficient to support priority species that require large blocks of habitat (e.g., Lesser Prairie-Chicken, Long-billed Curlew). See definitions of large block models in text.

Units: Bird densities in habitats that support them, expressed as breeding birds per acre for breeding species, or “use-days” per acre for nonbreeding birds (bioenergetics approach to planning; see planning team reports for details). These estimates were derived from the literature or expert opinion.

CC: “Carrying Capacity”; estimated number of birds (or use-days) that can be supported on a specific habitat type; also summed over all habitats used by a priority species to estimate carrying capacity for a planning Area.

Goal: Bird abundance target (breeding birds or use-days) for an Area; stepped-down from the continental bird initiatives (see planning team reports for details).

% of Goal: Carrying capacity of a priority species/guild expressed as a percent of goal; shown for each habitat and also summed for the planning Area. This number should be at least 100% for all priority species/guilds in the planning Area after habitat recommendations are implemented. However, due to habitat actions need for other species, this number could be well over 100%.

Table 3

This table shows the estimated current habitat acreages, and desired future acreages based on habitat recommendations in this plan. Sums should equal the total area of the planning unit. Pre- and post-planning acreage sums should be approximately equal (not exactly equal due to rounding errors in database calculations).

Explanation of Column Headings

Association Name: Broad level PLJV habitat classification.

Condition Name: Finest level PLJV habitat classification.

Pre-Condition Acres: Current acreage estimate of this habitat (using GIS and other data sources).

Post Condition Acres: Desired future acreage of this habitat, after recommendations in this Plan are implemented.

Net Change: Difference between pre- and post Condition acres, representing the change in acreage of a habitat type after recommendations in this plan are implemented.

Table 1. Carrying capacity models for priority **nonbreeding birds**. Under each Condition Name, the top row represents estimated current habitat conditions, and the bottom row is the desired future habitat conditions.

Species/Guild Name: Cranes

Season: Fall

Assoc Name	Condition Name	Condition			Large		CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Other Wetlands	Saline	12,877	1.0000	1.0000	1.00000	396.0000	5,099,472	1,654,391	308.24%
		12,875	1.0000	1.0000	1.00000	396.0000	5,098,339	1,654,391	308.10%
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	396.0000	29,358,288	1,654,391	1774.57%
		74,137	1.0000	1.0000	1.00000	396.0000	29,358,365	1,654,391	1774.50%
Other Wetlands	Moist-soil unit	349	1.0000	1.0000	1.00000	1,253.0000	437,868	1,654,391	26.47%
		21,360	1.0000	1.0000	1.00000	1,253.0000	26,764,232	1,654,391	1617.70%
Playa	Wet	2,280	1.0000	1.0000	1.00000	127.0000	289,545	1,654,391	17.50%
		2,280	1.0000	1.0000	1.00000	127.0000	289,545	1,654,391	17.50%
Riverine Systems	Floodplain marsh	48,917	1.0000	1.0000	1.00000	396.0000	19,371,181	1,654,391	1170.89%
		48,917	1.0000	1.0000	1.00000	396.0000	19,371,181	1,654,391	1170.80%
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	396.0000	464,314,806	1,654,391	28065.60
		823,824	1.0000	1.0000	1.00000	396.0000	326,234,436	1,654,391	19719.30
Summary for Fall (6 records)					Pre-planning Sum		518,871,160	31363.27%	
					Post-planning Sum		407,116,098	24607.90%	

Species/Guild Name: Cranes

Season: Spring

Assoc Name	Condition Name	Condition			Large		CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	396.0000	29,358,288	955,856	3071.41%
		74,137	1.0000	1.0000	1.00000	396.0000	29,358,365	955,856	3071.40%
Other Wetlands	Saline	12,877	1.0000	1.0000	1.00000	396.0000	5,099,472	955,856	533.50%
		12,875	1.0000	1.0000	1.00000	396.0000	5,098,339	955,856	533.30%
Other Wetlands	Moist-soil unit	349	1.0000	1.0000	1.00000	1,253.0000	437,868	955,856	45.81%
		21,360	1.0000	1.0000	1.00000	1,253.0000	26,764,232	955,856	2800.00%
Playa	Wet	2,280	1.0000	1.0000	1.00000	127.0000	289,545	955,856	30.29%
		2,280	1.0000	1.0000	1.00000	127.0000	289,545	955,856	30.20%
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	396.0000	464,314,806	955,856	48575.81
		823,824	1.0000	1.0000	1.00000	396.0000	326,234,436	955,856	34130.00
Riverine Systems	Floodplain marsh	48,917	1.0000	1.0000	1.00000	396.0000	19,371,181	955,856	2026.58%
		48,917	1.0000	1.0000	1.00000	396.0000	19,371,181	955,856	2026.50%
Summary for Spring (6 records)					Pre-planning Sum		518,871,160	54283.40%	
					Post-planning Sum		407,116,098	42591.40%	

Species/Guild Name: Cranes

Season: Winter

Assoc Name	Condition Name	Condition			Large		CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Cropland	Sorghum	2,256,947	1.0000	1.0000	1.00000	252.0000	568,750,731	552,656	102912.25%
		2,060,529	1.0000	1.0000	1.00000	252.0000	519,253,212	552,656	93955.90%
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	396.0000	2,533,727,196	552,656	458463.71%
		5,841,467	1.0000	1.0000	1.00000	396.0000	2,313,220,932	552,656	418564.34%
Cropland	Peanuts	0	1.0000	1.0000	1.00000	252.0000	0	552,656	0.00%
		0	1.0000	1.0000	1.00000	252.0000	0	552,656	0.00%
Cropland	Corn	1,244,215	1.0000	1.0000	1.00000	396.0000	492,708,967	552,656	89152.92
		1,135,932	1.0000	1.0000	1.00000	396.0000	449,829,248	552,656	81394.00
Summary for Winter (4 records)					Pre-planning Sum		3,595,168,894	650528.88%	
					Post-planning Sum		3,282,303,392	593914.37%	

Species/Guild Name: Shorebirds-Nonbreeding-Wetland

Season: Nonbreeding

Assoc Name	Condition Name	Condition			Large		CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Other Wetlands	Moist-soil unit	349	1.0000	0.1500	1.00000	766.0000	40,152	24,941,117	0.16%
		21,360	1.0000	0.9861	1.00000	766.0000	16,134,423	24,941,117	64.60%
Other Wetlands	Emergent marsh	74,137	1.0000	0.1000	1.00000	766.0000	5,678,901	24,941,117	22.77%
		74,137	1.0000	0.1000	1.00000	766.0000	5,678,916	24,941,117	22.70%
Other Wetlands	Saline	12,877	1.0000	0.1500	1.00000	766.0000	1,479,619	24,941,117	5.93%
		12,875	1.0000	0.1500	1.00000	766.0000	1,479,291	24,941,117	5.90%
Playa	Wet pit only	1,520	1.0000	0.0010	1.00000	766.0000	1,164	24,941,117	0.00%
		1,520	1.0000	0.0010	1.00000	766.0000	1,164	24,941,117	0.00%

Playa	Wet	2,280	1.0000	0.1000	1.00000	766.0000	174,639	24,941,117	0.70%
		2,280	1.0000	0.1000	1.00000	766.0000	174,639	24,941,117	0.70%
Reservoirs Lakes Ponds	Reservoir	96,455	1.0000	0.0050	1.00000	766.0000	369,422	24,941,117	1.48%
		96,455	1.0000	0.0050	1.00000	766.0000	369,422	24,941,117	1.40%
Reservoirs Lakes Ponds	Freshwater lake	1,065	1.0000	0.0050	1.00000	766.0000	4,080	24,941,117	0.02%
		1,065	1.0000	0.0050	1.00000	766.0000	4,080	24,941,117	0.00%
Reservoirs Lakes Ponds	Stock pond	49,648	1.0000	0.0050	1.00000	766.0000	190,150	24,941,117	0.76%
		49,648	1.0000	0.0050	1.00000	766.0000	190,150	24,941,117	0.70%
Reservoirs Lakes Ponds	Lagoon	3,273	1.0000	0.0050	1.00000	766.0000	12,535	24,941,117	0.05%
		3,273	1.0000	0.0050	1.00000	766.0000	12,535	24,941,117	0.00%
Riverine Systems	River channel	53,686	1.0000	0.0100	1.00000	766.0000	411,236	24,941,117	1.65%
		53,686	1.0000	0.0100	1.00000	766.0000	411,236	24,941,117	1.60%
Riverine Systems	Floodplain marsh	48,917	1.0000	0.0130	1.00000	766.0000	487,117	24,941,117	1.95%
		48,917	1.0000	0.0130	1.00000	766.0000	487,117	24,941,117	1.90%
Summary for Nonbreeding (11 records)					<i>Pre-planning Sum</i>		8,849,015		35.48%
					<i>Post-planning Sum</i>		24,942,973		99.50%

Species/Guild Name: Waterfowl-Nonbreeding

Season: Fall

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Wheat	6,398,301	1.0000	0.0000	1.00000	1,336.0000	0	42,198,871	0.00%
		5,841,467	1.0000	0.0000	1.00000	1,336.0000	0	42,198,871	0.00%
Cropland	Corn	1,244,215	1.0000	0.0000	1.00000	668.0000	0	42,198,871	0.00%
		1,135,932	1.0000	0.0000	1.00000	668.0000	0	42,198,871	0.00%
Cropland	Sorghum	2,256,947	1.0000	0.0000	1.00000	849.0000	0	42,198,871	0.00%
		2,060,529	1.0000	0.0000	1.00000	849.0000	0	42,198,871	0.00%
Other Wetlands	Saline	12,877	1.0000	1.0000	1.00000	1,336.0000	17,204,278	42,198,871	40.77%
		12,875	1.0000	1.0000	1.00000	1,336.0000	17,200,457	42,198,871	40.70%
Other Wetlands	Moist-soil unit	349	1.0000	1.0000	1.00000	4,223.0000	1,475,753	42,198,871	3.50%
		21,360	1.0000	1.0000	1.00000	4,223.0000	90,203,792	42,198,871	213.70%
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	1,336.0000	99,047,153	42,198,871	234.72%
		74,137	1.0000	1.0000	1.00000	1,336.0000	99,047,413	42,198,871	234.70%
Playa	Wet	2,280	1.0000	1.0000	1.00000	428.0000	975,789	42,198,871	2.31%
		2,280	1.0000	1.0000	1.00000	428.0000	975,789	42,198,871	2.30%
Reservoirs Lakes Ponds	Stock pond	49,648	1.0000	0.4000	1.00000	225.0000	4,468,288	42,198,871	10.59%
		49,648	1.0000	0.4000	1.00000	225.0000	4,468,288	42,198,871	10.50%
Reservoirs Lakes Ponds	Lagoon	3,273	1.0000	0.4000	1.00000	428.0000	560,302	42,198,871	1.33%
		3,273	1.0000	0.4000	1.00000	428.0000	560,302	42,198,871	1.30%
Reservoirs Lakes Ponds	Reservoir	96,455	1.0000	0.0500	1.00000	225.0000	1,085,116	42,198,871	2.57%
		96,455	1.0000	0.0500	1.00000	225.0000	1,085,116	42,198,871	2.50%
Reservoirs Lakes Ponds	Freshwater lake	1,065	1.0000	0.0500	1.00000	225.0000	11,984	42,198,871	0.03%
		1,065	1.0000	0.0500	1.00000	225.0000	11,984	42,198,871	0.00%
Riverine Systems	Floodplain marsh	48,917	1.0000	1.0000	1.00000	1,336.0000	65,353,278	42,198,871	154.87%
		48,917	1.0000	1.0000	1.00000	1,336.0000	65,353,278	42,198,871	154.80%
Riverine Systems	River channel	53,686	1.0000	1.0000	1.00000	50.0000	2,684,310	42,198,871	6.36%
		53,686	1.0000	1.0000	1.00000	50.0000	2,684,310	42,198,871	6.30%
Summary for Fall (13 records)					<i>Pre-planning Sum</i>		192,866,251		457.04%
					<i>Post-planning Sum</i>		281,590,729		666.80%

Species/Guild Name: Waterfowl-Nonbreeding

Season: Spring

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Corn	1,244,215	1.0000	0.0000	1.00000	668.0000	0	70,727,431	0.00%
		1,135,932	1.0000	0.0000	1.00000	668.0000	0	70,727,431	0.00%
Cropland	Wheat	6,398,301	1.0000	0.0000	1.00000	1,336.0000	0	70,727,431	0.00%
		5,841,467	1.0000	0.0000	1.00000	1,336.0000	0	70,727,431	0.00%
Cropland	Sorghum	2,256,947	1.0000	0.0000	1.00000	849.0000	0	70,727,431	0.00%
		2,060,529	1.0000	0.0000	1.00000	849.0000	0	70,727,431	0.00%
Other Wetlands	Moist-soil unit	349	1.0000	1.0000	1.00000	4,223.0000	1,475,753	70,727,431	2.09%
		21,360	1.0000	1.0000	1.00000	4,223.0000	90,203,792	70,727,431	127.50%
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	1,336.0000	99,047,153	70,727,431	140.04%
		74,137	1.0000	1.0000	1.00000	1,336.0000	99,047,413	70,727,431	140.00%
Other Wetlands	Saline	12,877	1.0000	1.0000	1.00000	1,336.0000	17,204,278	70,727,431	24.32%
		12,875	1.0000	1.0000	1.00000	1,336.0000	17,200,457	70,727,431	24.30%
Playa	Wet	2,280	1.0000	1.0000	1.00000	428.0000	975,789	70,727,431	1.38%
		2,280	1.0000	1.0000	1.00000	428.0000	975,789	70,727,431	1.30%

Reservoirs Lakes Ponds	Reservoir	96,455	1.0000	0.0500	1.00000	225.0000	1,085,116	70,727,431	1.53%
		96,455	1.0000	0.0500	1.00000	225.0000	1,085,116	70,727,431	1.50%
Reservoirs Lakes Ponds	Stock pond	49,648	1.0000	0.4000	1.00000	225.0000	4,468,288	70,727,431	6.32%
		49,648	1.0000	0.4000	1.00000	225.0000	4,468,288	70,727,431	6.30%
Reservoirs Lakes Ponds	Freshwater lake	1,065	1.0000	0.0500	1.00000	225.0000	11,984	70,727,431	0.02%
		1,065	1.0000	0.0500	1.00000	225.0000	11,984	70,727,431	0.00%
Reservoirs Lakes Ponds	Lagoon	3,273	1.0000	0.4000	1.00000	428.0000	560,302	70,727,431	0.79%
		3,273	1.0000	0.4000	1.00000	428.0000	560,302	70,727,431	0.70%
Riverine Systems	Floodplain marsh	48,917	1.0000	1.0000	1.00000	1,336.0000	65,353,278	70,727,431	92.40%
		48,917	1.0000	1.0000	1.00000	1,336.0000	65,353,278	70,727,431	92.40%
Riverine Systems	River channel	53,686	1.0000	1.0000	1.00000	50.0000	2,684,310	70,727,431	3.80%
		53,686	1.0000	1.0000	1.00000	50.0000	2,684,310	70,727,431	3.70%
Summary for Spring (13 records)							192,866,251		272.68%
							281,590,729		397.70%

Species/Guild Name: Waterfowl-Nonbreeding

Season: Winter

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	1,336.0000		42,303,248	
		5,841,467	1.0000	1.0000	1.00000	1,336.0000		42,303,248	
Cropland	Corn	1,244,215	1.0000	1.0000	1.00000	668.0000	831,135,328	42,303,248	1964.71%
		1,135,932	1.0000	1.0000	1.00000	668.0000	758,802,873	42,303,248	1793.70%
Cropland	Sorghum	2,256,947	1.0000	1.0000	1.00000	849.0000	1,916,148,298	42,303,248	4529.55%
		2,060,529	1.0000	1.0000	1.00000	849.0000	1,749,388,799	42,303,248	4135.30%
Other Wetlands	Emergent marsh	74,137	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
		74,137	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
Other Wetlands	Moist-soil unit	349	0.0000	1.0000	1.00000	4,223.0000	0	42,303,248	0.00%
		21,360	0.0000	1.0000	1.00000	4,223.0000	0	42,303,248	0.00%
Other Wetlands	Saline	12,877	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
		12,875	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
Playa	Wet	2,280	0.0000	1.0000	1.00000	428.0000	0	42,303,248	0.00%
		2,280	0.0000	1.0000	1.00000	428.0000	0	42,303,248	0.00%
Reservoirs Lakes Ponds	Stock pond	49,648	0.0000	0.4000	1.00000	225.0000	0	42,303,248	0.00%
		49,648	0.0000	0.4000	1.00000	225.0000	0	42,303,248	0.00%
Reservoirs Lakes Ponds	Reservoir	96,455	0.0000	0.0500	1.00000	225.0000	0	42,303,248	0.00%
		96,455	0.0000	0.0500	1.00000	225.0000	0	42,303,248	0.00%
Reservoirs Lakes Ponds	Freshwater lake	1,065	0.0000	0.0500	1.00000	225.0000	0	42,303,248	0.00%
		1,065	0.0000	0.0500	1.00000	225.0000	0	42,303,248	0.00%
Reservoirs Lakes Ponds	Lagoon	3,273	0.0000	0.4000	1.00000	428.0000	0	42,303,248	0.00%
		3,273	0.0000	0.4000	1.00000	428.0000	0	42,303,248	0.00%
Riverine Systems	Floodplain marsh	48,917	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
		48,917	0.0000	1.0000	1.00000	1,336.0000	0	42,303,248	0.00%
Riverine Systems	River channel	53,686	0.0000	1.0000	1.00000	50.0000	0	42,303,248	0.00%
		53,686	0.0000	1.0000	1.00000	50.0000	0	42,303,248	0.00%
Summary for Winter (13 records)							2,747,283,626		6494.26%
							2,508,191,672		5929.00%

Table 2. Carrying capacity models for priority **breeding birds**. Under Condition Name, the top row represents estimated current habitat conditions, and the bottom row is the desired future habitat conditions.

<i>Species/Guild Name: Baltimore Oriole</i>			<i>Season: Breeding</i>						
Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Other	Urban/Suburban	186,748	1.0000	1.0000	1.00000	0.3190	59,573	138,390	43.05%
		186,748	1.0000	1.0000	1.00000	0.3190	59,573	138,390	43.05%
Riverine Systems	Riparian canopy - early successional w/o understory	20,303	1.0000	1.0000	1.00000	0.3169	6,434	138,390	4.65%
		20,303	1.0000	1.0000	1.00000	0.3169	6,434	138,390	4.65%
Riverine Systems	Riparian canopy - early successional w/ understory	20,303	1.0000	1.0000	1.00000	0.3169	6,434	138,390	4.65%
		20,303	1.0000	1.0000	1.00000	0.3169	6,434	138,390	4.65%
Riverine Systems	Riparian canopy - late successional w/ understory	13,490	1.0000	1.0000	1.00000	1.0369	13,987	138,390	10.11%
		43,603	1.0000	1.0000	1.00000	1.0369	45,212	138,390	32.67%
Riverine Systems	Riparian canopy - late successional w/o understory	13,490	1.0000	1.0000	1.00000	1.0369	13,987	138,390	10.11%
		43,603	1.0000	1.0000	1.00000	1.0369	45,212	138,390	32.67%
Summary for Breeding (5 records)					<i>Pre-planning Sum</i>		100,415		72.56%
					<i>Post-planning Sum</i>		162,865		117.68%

<i>Species/Guild Name: Bell's Vireo</i>			<i>Season: Breeding</i>						
Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	112,127	17.03%
		1,337,903	1.0000	1.0000	1.00000	0.0200	26,758	112,127	23.86%
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	112,127	17.03%
		1,337,903	1.0000	1.0000	1.00000	0.0200	26,758	112,127	23.86%
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.2186	2,532	112,127	2.26%
		262,981	1.0000	1.0000	1.00000	0.2186	57,488	112,127	51.27%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.0400	8,187	112,127	7.30%
		245,624	1.0000	1.0000	1.00000	0.0400	9,825	112,127	8.76%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.0400	8,187	112,127	7.30%
		245,624	1.0000	1.0000	1.00000	0.0400	9,825	112,127	8.76%
Summary for Breeding (5 records)					<i>Pre-planning Sum</i>		57,102		50.92%
					<i>Post-planning Sum</i>		130,654		116.52%

<i>Species/Guild Name: Burrowing Owl</i>			<i>Season: Breeding</i>						
Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Mixed Grass	PD town	9,959	1.0000	0.4000	1.00000	0.2132	849	849	100.00%
		9,959	1.0000	0.4000	1.00000	0.2132	849	849	100.00%
Summary for Breeding (1 record)					<i>Pre-planning Sum</i>		849		100.00%
					<i>Post-planning Sum</i>		849		100.00%

<i>Species/Guild Name: Cassin's Sparrow</i>			<i>Season: Breeding</i>						
Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0054	433	23,161	1.87%
		248,256	1.0000	1.0000	1.00000	0.0054	1,341	23,161	5.79%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0541	4,334	23,161	18.71%
		248,256	1.0000	1.0000	1.00000	0.0541	13,431	23,161	57.99%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.0541	228	23,161	0.98%
		13,066	1.0000	1.0000	1.00000	0.0541	707	23,161	3.05%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0047	545	23,161	2.35%
		92,834	1.0000	1.0000	1.00000	0.0047	436	23,161	1.88%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0047	545	23,161	2.35%
		92,834	1.0000	1.0000	1.00000	0.0047	436	23,161	1.88%

Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0246	2,855	23,161	12.33%
		139,251	1.0000	1.0000	1.00000	0.0246	3,426	23,161	14.79%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0246	2,855	23,161	12.33%
		139,251	1.0000	1.0000	1.00000	0.0246	3,426	23,161	14.79%
Summary for Breeding (7 records)					<i>Pre-planning Sum</i>		11,795		50.92%
					<i>Post-planning Sum</i>		23,203		100.18%

Species/Guild Name: Dickcissel

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.2112	138,264	5,691,979	2.43%
		654,812	1.0000	1.0000	1.00000	0.2112	138,296	5,691,979	2.43%
Cropland	Sorghum	2,256,947	1.0000	1.0000	1.00000	0.0084	18,958	5,691,979	0.33%
		2,060,529	1.0000	1.0000	1.00000	0.0084	17,308	5,691,979	0.30%
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.2112	0	5,691,979	0.00%
		0	1.0000	1.0000	1.00000	0.2112	0	5,691,979	0.00%
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.3279	183,827	5,691,979	3.23%
		560,702	1.0000	1.0000	1.00000	0.3279	183,854	5,691,979	3.23%
Cropland	Corn	1,244,215	1.0000	1.0000	1.00000	0.0084	10,451	5,691,979	0.18%
		1,135,932	1.0000	1.0000	1.00000	0.0084	9,542	5,691,979	0.17%
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0048	30,712	5,691,979	0.54%
		5,841,467	1.0000	1.0000	1.00000	0.0048	28,039	5,691,979	0.49%
CRP	Native	1,406,629	1.0000	1.0000	1.00000	1.3600	1,913,015	5,691,979	33.61%
		2,782,489	1.0000	1.0000	1.00000	1.3600	3,784,185	5,691,979	66.48%
CRP	Non-native	0	1.0000	1.0000	1.00000	1.3600	0	5,691,979	0.00%
		0	1.0000	1.0000	1.00000	1.3600	0	5,691,979	0.00%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	1.4164	1,352,490	5,691,979	23.76%
		571,855	1.0000	1.0000	1.00000	1.4164	809,975	5,691,979	14.23%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	1.4164	1,352,490	5,691,979	23.76%
		571,855	1.0000	1.0000	1.00000	1.4164	809,975	5,691,979	14.23%
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.0162	188	5,691,979	0.00%
		262,981	1.0000	1.0000	1.00000	0.0162	4,260	5,691,979	0.07%
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	0.4250	498,318	5,691,979	8.75%
		823,824	1.0000	1.0000	1.00000	0.4250	350,125	5,691,979	6.15%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.4721	96,633	5,691,979	1.70%
		73,687	1.0000	1.0000	1.00000	0.4721	34,788	5,691,979	0.61%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.4721	96,633	5,691,979	1.70%
		253,812	1.0000	1.0000	1.00000	0.4721	119,825	5,691,979	2.11%
Summary for Breeding (14 records)					<i>Pre-planning Sum</i>		5,691,979		99.99%
					<i>Post-planning Sum</i>		6,290,172		110.51%

Species/Guild Name: Eastern Meadowlark

Season: Resident

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Alfalfa	560,620	1.0000	0.6000	1.00000	0.0165	5,550	307,928	1.80%
		560,702	1.0000	1.0000	1.00000	0.0165	9,252	307,928	3.00%
Cropland	Hay	654,659	1.0000	0.6000	1.00000	0.0433	17,008	307,928	5.52%
		654,812	1.0000	1.0000	1.00000	0.0433	28,353	307,928	9.21%
Cropland	Pasture	0	1.0000	0.6000	1.00000	0.0720	0	307,928	0.00%
		0	1.0000	0.6000	1.00000	0.0720	0	307,928	0.00%
CRP	Non-native	0	1.0000	0.6000	1.00000	0.0554	0	307,928	0.00%
		0	1.0000	0.6000	1.00000	0.0554	0	307,928	0.00%
CRP	Native	1,406,629	1.0000	0.6000	1.00000	0.0554	46,756	307,928	15.18%
		2,782,489	1.0000	0.6000	1.00000	0.0554	92,490	307,928	30.04%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	0.6000	1.00000	0.0540	30,938	307,928	10.05%
		571,855	1.0000	0.6000	1.00000	0.0540	18,528	307,928	6.02%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	0.6000	1.00000	0.0660	37,813	307,928	12.28%
		571,855	1.0000	0.6000	1.00000	0.0660	22,645	307,928	7.35%
Other Wetlands	Moist-soil unit	349	1.0000	0.6000	1.00000	0.0121	3	307,928	0.00%
		21,360	1.0000	0.6000	1.00000	0.0121	155	307,928	0.05%

Riverine Systems	Wet meadow	1,172,512	1.0000	0.6000	1.00000	0.0121	8,512	307,928	2.76%
		823,824	1.0000	0.6000	1.00000	0.0121	5,981	307,928	1.94%
Sand Sage	Low grass	80,106	1.0000	0.6000	1.00000	0.0025	120	307,928	0.04%
		248,256	1.0000	0.6000	1.00000	0.0025	372	307,928	0.12%
Sand Sage	High grass	4,216	1.0000	0.6000	1.00000	0.0034	9	307,928	0.00%
		13,066	1.0000	0.6000	1.00000	0.0034	27	307,928	0.01%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	0.6000	1.00000	0.3570	43,844	307,928	14.24%
		73,687	1.0000	0.6000	1.00000	0.3570	15,784	307,928	5.13%
Tallgrass	Few shrubs/high grass	204,687	1.0000	0.6000	1.00000	0.2677	32,877	307,928	10.68%
		253,812	1.0000	0.6000	1.00000	0.2677	40,767	307,928	13.24%
Summary for Resident (13 records)					<i>Pre-planning Sum</i>		223,430		72.55%
					<i>Post-planning Sum</i>		234,354		76.10%

Species/Guild Name: Grasshopper Sparrow

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0121	77,419	2,582,830	3.00%
		5,841,467	1.0000	1.0000	1.00000	0.0121	70,682	2,582,830	2.74%
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.0337	18,893	2,582,830	0.73%
		560,702	1.0000	1.0000	1.00000	0.0337	18,896	2,582,830	0.73%
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.0337	0	2,582,830	0.00%
		0	1.0000	1.0000	1.00000	0.0337	0	2,582,830	0.00%
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.0337	22,062	2,582,830	0.85%
		654,812	1.0000	1.0000	1.00000	0.0337	22,067	2,582,830	0.85%
CRP	Non-native	0	1.0000	1.0000	1.00000	0.6330	0	2,582,830	0.00%
		0	1.0000	1.0000	1.00000	0.6330	0	2,582,830	0.00%
CRP	Native	1,406,629	1.0000	1.0000	1.00000	0.6330	890,396	2,582,830	34.47%
		2,782,489	1.0000	1.0000	1.00000	0.6330	1,761,316	2,582,830	68.19%
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.0336	32,084	2,582,830	1.24%
		1,337,903	1.0000	1.0000	1.00000	0.0336	44,954	2,582,830	1.74%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.1628	155,454	2,582,830	6.02%
		571,855	1.0000	1.0000	1.00000	0.1628	93,098	2,582,830	3.60%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	0.0336	32,084	2,582,830	1.24%
		571,855	1.0000	1.0000	1.00000	0.0336	19,214	2,582,830	0.74%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.1628	155,454	2,582,830	6.02%
		1,337,903	1.0000	1.0000	1.00000	0.1628	217,811	2,582,830	8.43%
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	0.0396	46,431	2,582,830	1.80%
		823,824	1.0000	1.0000	1.00000	0.0396	32,623	2,582,830	1.26%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0354	2,836	2,582,830	0.11%
		248,256	1.0000	1.0000	1.00000	0.0354	8,788	2,582,830	0.34%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.1711	721	2,582,830	0.03%
		13,066	1.0000	1.0000	1.00000	0.1711	2,236	2,582,830	0.09%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.1628	18,892	2,582,830	0.73%
		92,834	1.0000	1.0000	1.00000	0.1628	15,113	2,582,830	0.59%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0336	3,899	2,582,830	0.15%
		92,834	1.0000	1.0000	1.00000	0.0336	3,119	2,582,830	0.12%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0336	3,899	2,582,830	0.15%
		139,251	1.0000	1.0000	1.00000	0.0336	4,679	2,582,830	0.18%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.1628	18,892	2,582,830	0.73%
		139,251	1.0000	1.0000	1.00000	0.1628	22,670	2,582,830	0.88%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.2890	59,155	2,582,830	2.29%
		73,687	1.0000	1.0000	1.00000	0.2890	21,296	2,582,830	0.82%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.2890	59,155	2,582,830	2.29%
		245,624	1.0000	1.0000	1.00000	0.2890	70,985	2,582,830	2.75%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.2890	59,155	2,582,830	2.29%
		253,812	1.0000	1.0000	1.00000	0.2890	73,352	2,582,830	2.84%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.2890	59,155	2,582,830	2.29%
		245,624	1.0000	1.0000	1.00000	0.2890	70,985	2,582,830	2.75%
Summary for Breeding (21 records)					<i>Pre-planning Sum</i>		1,716,036		66.43%
					<i>Post-planning Sum</i>		2,573,884		99.65%

Species/Guild Name: Greater Prairie-Chicken

Season: Resident

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
CRP	Native	1,406,629	1.0000	0.5000	0.14400	0.0377	3,818	78,086	4.89%
		2,782,489	1.0000	0.5000	0.54400	0.0377	28,533	78,086	36.54%
CRP	Non-native	0	1.0000	0.5000	0.14400	0.0377	0	78,086	0.00%
		0	1.0000	0.5000	0.54400	0.0377	0	78,086	0.00%
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	0.39100	0.0377	14,076	78,086	18.03%
		1,337,903	1.0000	1.0000	0.72500	0.0377	36,568	78,086	46.83%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	0.39100	0.0377	14,076	78,086	18.03%
		571,855	1.0000	1.0000	0.72500	0.0377	15,630	78,086	20.02%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	0.39100	0.0377	14,076	78,086	18.03%
		571,855	1.0000	1.0000	0.72500	0.0377	15,630	78,086	20.02%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	0.39100	0.0377	14,076	78,086	18.03%
		1,337,903	1.0000	1.0000	0.72500	0.0377	36,568	78,086	46.83%
Sand Sage	Low grass	80,106	1.0000	0.5000	0.00000	0.0377	0	78,086	0.00%
		248,256	1.0000	0.5000	0.00000	0.0377	0	78,086	0.00%
Sand Sage	High grass	4,216	1.0000	0.5000	0.00000	0.0377	0	78,086	0.00%
		13,066	1.0000	0.5000	0.00000	0.0377	0	78,086	0.00%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	0.58200	0.0377	4,491	78,086	5.75%
		253,812	1.0000	1.0000	0.68200	0.0377	6,526	78,086	8.36%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	0.58200	0.0377	4,491	78,086	5.75%
		73,687	1.0000	1.0000	0.68200	0.0377	1,895	78,086	2.43%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	0.58200	0.0377	4,491	78,086	5.75%
		245,624	1.0000	1.0000	0.68200	0.0377	6,315	78,086	8.09%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	0.58200	0.0377	4,491	78,086	5.75%
		245,624	1.0000	1.0000	0.68200	0.0377	6,315	78,086	8.09%
Summary for Resident (12 records)				Pre-planning Sum			78,086		100.00%
				Post-planning Sum			153,980		197.19%

Species/Guild Name: Henslow's Sparrow

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	0.00100	0.1153	110	7,477	1.47%
		1,337,903	1.0000	1.0000	0.00100	0.1153	154	7,477	2.06%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	0.00100	0.1153	110	7,477	1.47%
		571,855	1.0000	1.0000	0.00100	0.1153	66	7,477	0.88%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	0.07600	0.1153	1,794	7,477	23.99%
		253,812	1.0000	1.0000	0.15660	0.1153	4,583	7,477	61.29%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	0.07600	0.1153	1,794	7,477	23.99%
		245,624	1.0000	1.0000	0.15660	0.1153	4,435	7,477	59.32%
Summary for Breeding (4 records)				Pre-planning Sum			3,808		50.93%
				Post-planning Sum			9,238		123.55%

Species/Guild Name: Lark Bunting

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Cropland	Hay	654,659	0.2540	0.2540	1.00000	0.0042	177	18,564	0.95%
		654,812	0.2540	0.2540	1.00000	0.0042	177	18,564	0.95%
Cropland	Wheat	6,398,301	0.2540	0.2540	1.00000	0.0060	2,477	18,564	13.34%
		5,841,467	0.2540	0.2540	1.00000	0.0060	2,261	18,564	12.18%
Cropland	Pasture	0	0.2540	0.2540	1.00000	0.0042	0	18,564	0.00%
		0	0.2540	0.2540	1.00000	0.0042	0	18,564	0.00%
Cropland	Alfalfa	560,620	0.2540	0.2540	1.00000	0.0042	152	18,564	0.82%
		560,702	0.2540	0.2540	1.00000	0.0042	152	18,564	0.82%
Mixed Grass	Few shrubs/ low grass	954,879	0.2540	0.2540	1.00000	0.0094	579	18,564	3.12%
		571,855	0.2540	0.2540	1.00000	0.0094	347	18,564	1.87%
Mixed Grass	Many shrubs/low grass	954,879	0.2540	0.2540	1.00000	0.0087	536	18,564	2.89%
		1,337,903	0.2540	0.2540	1.00000	0.0087	751	18,564	4.05%
Mixed Grass	PD town	9,959	0.2540	0.2540	1.00000	0.0094	6	18,564	0.03%

		9,959	0.2540	0.2540	1.00000	0.0094	6	18,564	0.03%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0105	841	18,564	4.53%
		248,256	1.0000	1.0000	1.00000	0.0105	2,607	18,564	14.04%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.0105	44	18,564	0.24%
		13,066	1.0000	1.0000	1.00000	0.0105	137	18,564	0.74%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0094	1,091	18,564	5.88%
		92,834	1.0000	1.0000	1.00000	0.0094	873	18,564	4.70%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0105	1,218	18,564	6.56%
		139,251	1.0000	1.0000	1.00000	0.0105	1,462	18,564	7.88%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0087	1,010	18,564	5.44%
		139,251	1.0000	1.0000	1.00000	0.0087	1,211	18,564	6.52%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0114	1,323	18,564	7.13%
		92,834	1.0000	1.0000	1.00000	0.0114	1,058	18,564	5.70%
Summary for Breeding (13 records)					<i>Pre-planning Sum</i>		9,454		50.92%
					<i>Post-planning Sum</i>		11,042		59.48%

Species/Guild Name: Lark Sparrow

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.1205	115,063	577,982	19.91%
		1,337,903	1.0000	1.0000	1.00000	0.1205	161,217	577,982	27.89%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.1205	115,063	577,982	19.91%
		1,337,903	1.0000	1.0000	1.00000	0.1205	161,217	577,982	27.89%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	0.0041	3,915	577,982	0.68%
		571,855	1.0000	1.0000	1.00000	0.0041	2,345	577,982	0.41%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0041	3,915	577,982	0.68%
		571,855	1.0000	1.0000	1.00000	0.0041	2,345	577,982	0.41%
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.0016	19	577,982	0.00%
		262,981	1.0000	1.0000	1.00000	0.0016	421	577,982	0.07%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.1420	11,375	577,982	1.97%
		248,256	1.0000	1.0000	1.00000	0.1420	35,252	577,982	6.10%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.1420	599	577,982	0.10%
		13,066	1.0000	1.0000	1.00000	0.1420	1,855	577,982	0.32%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0607	7,044	577,982	1.22%
		139,251	1.0000	1.0000	1.00000	0.0607	8,453	577,982	1.46%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0607	7,044	577,982	1.22%
		139,251	1.0000	1.0000	1.00000	0.0607	8,453	577,982	1.46%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0207	2,402	577,982	0.42%
		92,834	1.0000	1.0000	1.00000	0.0207	1,922	577,982	0.33%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0207	2,402	577,982	0.42%
		92,834	1.0000	1.0000	1.00000	0.0207	1,922	577,982	0.33%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.0041	839	577,982	0.15%
		73,687	1.0000	1.0000	1.00000	0.0041	302	577,982	0.05%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.1205	24,665	577,982	4.27%
		245,624	1.0000	1.0000	1.00000	0.1205	29,598	577,982	5.12%
Summary for Breeding (13 records)					<i>Pre-planning Sum</i>		294,345		50.92%
					<i>Post-planning Sum</i>		415,302		71.85%

Species/Guild Name: Lesser Prairie-Chicken

Season: Resident

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
CRP	Native	1,406,629	1.0000	0.5000	0.25800	0.0125	2,268	40,633	5.58%
		2,782,489	1.0000	0.5000	0.70000	0.0125	12,173	40,633	29.96%
CRP	Non-native	0	1.0000	0.5000	0.25800	0.0125	0	40,633	0.00%
		0	1.0000	0.5000	0.70000	0.0125	0	40,633	0.00%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	0.36500	0.0125	4,357	40,633	10.72%
		1,337,903	1.0000	1.0000	0.68000	0.0125	11,372	40,633	27.99%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	0.36500	0.0125	4,357	40,633	10.72%
		571,855	1.0000	1.0000	0.68000	0.0125	4,861	40,633	11.96%

Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	0.36500	0.0125	4,357	40,633	10.72%
		1,337,903	1.0000	1.0000	0.68000	0.0125	11,372	40,633	27.99%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	0.36500	0.0125	4,357	40,633	10.72%
		571,855	1.0000	1.0000	0.68000	0.0125	4,861	40,633	11.96%
Sand Sage	Low grass	80,106	1.0000	1.0000	0.75800	0.0156	947	40,633	2.33%
		248,256	1.0000	1.0000	0.90000	0.0156	3,486	40,633	8.58%
Sand Sage	High grass	4,216	1.0000	1.0000	0.75800	0.0156	50	40,633	0.12%
		13,066	1.0000	1.0000	0.90000	0.0156	183	40,633	0.45%
Summary for Resident (8 records)							<i>Pre-planning Sum</i>	20,693	50.92%
							<i>Post-planning Sum</i>	48,308	118.89%

Species/Guild Name: Loggerhead Shrike

Season: Resident

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.0016	1,047	48,390	2.16%
		654,812	1.0000	1.0000	1.00000	0.0016	1,048	48,390	2.17%
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.0016	897	48,390	1.85%
		560,702	1.0000	1.0000	1.00000	0.0016	897	48,390	1.85%
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.0016	0	48,390	0.00%
		0	1.0000	1.0000	1.00000	0.0016	0	48,390	0.00%
CRP	Non-native	0	1.0000	1.0000	1.00000	0.0016	0	48,390	0.00%
		0	1.0000	1.0000	1.00000	0.0016	0	48,390	0.00%
CRP	Native	1,406,629	1.0000	1.0000	1.00000	0.0016	2,251	48,390	4.65%
		2,782,489	1.0000	1.0000	1.00000	0.0016	4,452	48,390	9.20%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	0.0016	1,528	48,390	3.16%
		571,855	1.0000	1.0000	1.00000	0.0016	915	48,390	1.89%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0016	1,528	48,390	3.16%
		571,855	1.0000	1.0000	1.00000	0.0016	915	48,390	1.89%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0037	3,533	48,390	7.30%
		1,337,903	1.0000	1.0000	1.00000	0.0037	4,950	48,390	10.23%
Mixed Grass	PD town	9,959	1.0000	1.0000	1.00000	0.0016	16	48,390	0.03%
		9,959	1.0000	1.0000	1.00000	0.0016	16	48,390	0.03%
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.0037	3,533	48,390	7.30%
		1,337,903	1.0000	1.0000	1.00000	0.0037	4,950	48,390	10.23%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.0037	16	48,390	0.03%
		13,066	1.0000	1.0000	1.00000	0.0037	48	48,390	0.10%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0037	296	48,390	0.61%
		248,256	1.0000	1.0000	1.00000	0.0037	919	48,390	1.90%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0042	487	48,390	1.01%
		92,834	1.0000	1.0000	1.00000	0.0042	390	48,390	0.81%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0096	1,114	48,390	2.30%
		139,251	1.0000	1.0000	1.00000	0.0096	1,337	48,390	2.76%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0042	487	48,390	1.01%
		92,834	1.0000	1.0000	1.00000	0.0042	390	48,390	0.81%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0096	1,114	48,390	2.30%
		139,251	1.0000	1.0000	1.00000	0.0096	1,337	48,390	2.76%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.0115	2,354	48,390	4.86%
		245,624	1.0000	1.0000	1.00000	0.0115	2,825	48,390	5.84%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.0115	2,354	48,390	4.86%
		245,624	1.0000	1.0000	1.00000	0.0115	2,825	48,390	5.84%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.0051	1,044	48,390	2.16%
		253,812	1.0000	1.0000	1.00000	0.0051	1,294	48,390	2.67%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.0051	1,044	48,390	2.16%
		73,687	1.0000	1.0000	1.00000	0.0051	376	48,390	0.78%
Summary for Resident (20 records)							<i>Pre-planning Sum</i>	24,643	50.92%
							<i>Post-planning Sum</i>	29,884	61.75%

Species/Guild Name: Mississippi Kite

Season: Breeding

Assoc Name	Condition Name	Condition		Large			Units	CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block					
Other	Urban/Suburban	186,748	0.6000	0.4000	1.00000	0.2312	10,362	19,090	54.28%	
		186,748	0.6000	0.4000	1.00000	0.2312	10,362	19,090	54.28%	
Riverine Systems	Riparian canopy - late	13,490	0.4000	0.3760	1.00000	0.6937	1,407	19,090	7.37%	
	successional w/ understory	43,603	0.4000	0.3760	1.00000	0.6937	4,549	19,090	23.83%	
Riverine Systems	Riparian canopy - late	13,490	0.4000	0.3760	1.00000	0.6937	1,407	19,090	7.37%	
	successional w/o understory	43,603	0.4000	0.3760	1.00000	0.6937	4,549	19,090	23.83%	
Summary for Breeding (3 records)					Pre-planning Sum		13,176		69.02%	
					Post-planning Sum		19,460		101.94%	

Species/Guild Name: Northern Bobwhite

Season: Resident

Assoc Name	Condition Name	Condition		Large			Units	CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block					
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.0260	14,576	675,607	2.16%	
		560,702	1.0000	1.0000	1.00000	0.0260	14,578	675,607	2.16%	
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.0260	17,021	675,607	2.52%	
		654,812	1.0000	1.0000	1.00000	0.0260	17,025	675,607	2.52%	
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.0260	0	675,607	0.00%	
		0	1.0000	1.0000	1.00000	0.0260	0	675,607	0.00%	
Cropland	Soybeans	770,400	1.0000	1.0000	1.00000	0.0260	20,030	675,607	2.96%	
		703,354	1.0000	1.0000	1.00000	0.0260	18,287	675,607	2.71%	
Cropland	Sunflowers	99,465	1.0000	1.0000	1.00000	0.0260	2,586	675,607	0.38%	
		90,809	1.0000	1.0000	1.00000	0.0260	2,361	675,607	0.35%	
Cropland	Sorghum	2,256,947	1.0000	1.0000	1.00000	0.0260	58,681	675,607	8.69%	
		2,060,529	1.0000	1.0000	1.00000	0.0260	53,574	675,607	7.93%	
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0260	166,356	675,607	24.62%	
		5,841,467	1.0000	1.0000	1.00000	0.0260	151,878	675,607	22.48%	
CRP	Native	1,406,629	1.0000	1.0000	1.00000	0.0320	45,012	675,607	6.66%	
		2,782,489	1.0000	1.0000	1.00000	0.0320	89,040	675,607	13.18%	
CRP	Non-native	0	1.0000	1.0000	1.00000	0.0320	0	675,607	0.00%	
		0	1.0000	1.0000	1.00000	0.0320	0	675,607	0.00%	
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	675,607	2.83%	
		1,337,903	1.0000	1.0000	1.00000	0.0200	26,758	675,607	3.96%	
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	675,607	2.83%	
		571,855	1.0000	1.0000	1.00000	0.0200	11,437	675,607	1.69%	
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	675,607	2.83%	
		1,337,903	1.0000	1.0000	1.00000	0.0200	26,758	675,607	3.96%	
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0200	19,098	675,607	2.83%	
		571,855	1.0000	1.0000	1.00000	0.0200	11,437	675,607	1.69%	
Riverine Systems	Riparian canopy - early	20,303	1.0000	1.0000	1.00000	0.0980	1,990	675,607	0.29%	
	successional w/o understor	20,303	1.0000	1.0000	1.00000	0.0980	1,990	675,607	0.29%	
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.0980	1,322	675,607	0.20%	
	successional w/o understory	43,603	1.0000	1.0000	1.00000	0.0980	4,273	675,607	0.63%	
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.0980	1,135	675,607	0.17%	
		262,981	1.0000	1.0000	1.00000	0.0980	25,772	675,607	3.81%	
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.0980	1,322	675,607	0.20%	
	successional w/ understory	43,603	1.0000	1.0000	1.00000	0.0980	4,273	675,607	0.63%	
Riverine Systems	Riparian canopy - early	20,303	1.0000	1.0000	1.00000	0.0980	1,990	675,607	0.29%	
	successional w/ understory	20,303	1.0000	1.0000	1.00000	0.0980	1,990	675,607	0.29%	
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	0.0980	114,906	675,607	17.01%	
		823,824	1.0000	1.0000	1.00000	0.0980	80,735	675,607	11.95%	
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.1860	38,072	675,607	5.64%	
		73,687	1.0000	1.0000	1.00000	0.1860	13,706	675,607	2.03%	
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.1860	38,072	675,607	5.64%	
		245,624	1.0000	1.0000	1.00000	0.1860	45,686	675,607	6.76%	
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.1860	38,072	675,607	5.64%	
		245,624	1.0000	1.0000	1.00000	0.1860	45,686	675,607	6.76%	
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.1860	38,072	675,607	5.64%	

		253,812	1.0000	1.0000	1.00000	0.1860	47,209	675,607	6.99%
Summary for Resident (23 records)							<i>Pre-planning Sum</i>	675,607	99.99%
							<i>Post-planning Sum</i>	694,453	102.78%

Species/Guild Name: Painted Bunting

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Riverine Systems	Native riparian shrubland	11,582	1.0000	0.1000	1.00000	0.0350	41	41	100.00%
		262,981	1.0000	0.0100	1.00000	0.0350	92	41	224.39%
Summary for Breeding (1 record)							<i>Pre-planning Sum</i>	41	100.00%
							<i>Post-planning Sum</i>	92	224.39%

Species/Guild Name: Red-headed Woodpecker

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Other	Urban/Suburban	186,748	1.0000	1.0000	1.00000	0.1506	28,124	37,368	75.26%
		186,748	1.0000	1.0000	1.00000	0.1506	28,124	37,368	75.26%
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.3426	4,622	37,368	12.37%
	successional w/ understory	43,603	1.0000	1.0000	1.00000	0.3426	14,938	37,368	39.98%
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.3426	4,622	37,368	12.37%
	successional w/o understory	43,603	1.0000	1.0000	1.00000	0.3426	14,938	37,368	39.98%
Summary for Breeding (3 records)							<i>Pre-planning Sum</i>	37,368	100.00%
							<i>Post-planning Sum</i>	58,000	155.21%

Species/Guild Name: Ring-necked Pheasant

Season: Resident

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.0300	16,819	77,210	21.78%
		560,702	1.0000	1.0000	1.00000	0.0300	16,821	77,210	21.79%
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.0121	7,921	77,210	10.26%
		654,812	1.0000	1.0000	1.00000	0.0121	7,923	77,210	10.26%
Cropland	Sorghum	2,256,947	1.0000	1.0000	1.00000	0.0016	3,611	77,210	4.68%
		2,060,529	1.0000	1.0000	1.00000	0.0016	3,297	77,210	4.27%
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.0121	0	77,210	0.00%
		0	1.0000	1.0000	1.00000	0.0121	0	77,210	0.00%
Cropland	Corn	1,244,215	1.0000	1.0000	1.00000	0.0016	1,991	77,210	2.58%
		1,135,932	1.0000	1.0000	1.00000	0.0016	1,817	77,210	2.35%
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0016	10,237	77,210	13.26%
		5,841,467	1.0000	1.0000	1.00000	0.0016	9,346	77,210	12.10%
CRP	Native	1,406,629	1.0000	1.0000	1.00000	0.0240	33,759	77,210	43.72%
		2,782,489	1.0000	1.0000	1.00000	0.0240	66,780	77,210	86.49%
CRP	Non-native	0	1.0000	1.0000	1.00000	0.0240	0	77,210	0.00%
		0	1.0000	1.0000	1.00000	0.0240	0	77,210	0.00%
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	0.0121	897	77,210	1.16%
		74,137	1.0000	1.0000	1.00000	0.0121	897	77,210	1.16%
Playa	Dry	21,532	1.0000	1.0000	1.00000	0.0121	261	77,210	0.34%
		21,532	1.0000	1.0000	1.00000	0.0121	261	77,210	0.34%
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.0291	337	77,210	0.44%
		262,981	1.0000	1.0000	1.00000	0.0291	7,653	77,210	9.91%
Riverine Systems	Riparian canopy - early	20,303	1.0000	1.0000	1.00000	0.0291	591	77,210	0.77%
	successional w/ understory	20,303	1.0000	1.0000	1.00000	0.0291	591	77,210	0.77%
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.0291	393	77,210	0.51%
	successional w/o understory	43,603	1.0000	1.0000	1.00000	0.0291	1,269	77,210	1.64%
Riverine Systems	Riparian canopy - late	13,490	1.0000	1.0000	1.00000	0.0291	393	77,210	0.51%
	successional w/ understory	43,603	1.0000	1.0000	1.00000	0.0291	1,269	77,210	1.64%
Summary for Resident (14 records)							<i>Pre-planning Sum</i>	77,210	100.00%
							<i>Post-planning Sum</i>	117,924	152.73%

Species/Guild Name: Scaled Quail

Season: Resident

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Sand Sage	Low grass	80,106	0.0100	1.0000	1.00000	0.0022	2	2	100.00%
		248,256	0.0100	1.0000	1.00000	0.0022	5	2	250.00%
Sand Sage	High grass	4,216	0.0100	1.0000	1.00000	0.0022	0	2	0.00%
		13,066	0.0100	1.0000	1.00000	0.0022	0	2	0.00%
Summary for Resident (2 records)					<i>Pre-planning Sum</i>		2		100.00%
					<i>Post-planning Sum</i>		5		250.00%

Species/Guild Name: Scissor-tailed Flycatcher

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Cropland	Pasture	0	1.0000	0.4172	1.00000	0.0062	0	16,475	0.00%
		0	1.0000	0.4172	1.00000	0.0062	0	16,475	0.00%
Cropland	Hay	654,659	1.0000	0.4172	1.00000	0.0062	1,693	16,475	10.28%
		654,812	1.0000	0.4172	1.00000	0.0062	1,694	16,475	10.28%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	0.4172	1.00000	0.0062	2,470	16,475	14.99%
		571,855	1.0000	0.4172	1.00000	0.0062	1,479	16,475	8.98%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	0.4172	1.00000	0.0062	2,470	16,475	14.99%
		571,855	1.0000	0.4172	1.00000	0.0062	1,479	16,475	8.98%
Other	Urban/Suburban	186,748	1.0000	0.4172	1.00000	0.0062	483	16,475	2.93%
		186,748	1.0000	0.4172	1.00000	0.0062	483	16,475	2.93%
Other	small roads	492,494	1.0000	0.4172	1.00000	0.0062	1,274	16,475	7.73%
		492,494	1.0000	0.4172	1.00000	0.0062	1,274	16,475	7.73%
Summary for Breeding (6 records)					<i>Pre-planning Sum</i>		8,390		50.92%
					<i>Post-planning Sum</i>		6,409		38.90%

Species/Guild Name: Short-eared Owl

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
CRP	Native	1,406,629	1.0000	0.5000	1.00000	0.0005	352	1,339	26.29%
		2,782,489	1.0000	1.0000	1.00000	0.0005	1,391	1,339	103.88%
CRP	Non-native	0	1.0000	0.5000	1.00000	0.0005	0	1,339	0.00%
		0	1.0000	1.0000	1.00000	0.0005	0	1,339	0.00%
Other Wetlands	Emergent marsh	74,137	1.0000	1.0000	1.00000	0.0005	37	1,339	2.76%
		74,137	1.0000	1.0000	1.00000	0.0005	37	1,339	2.76%
Other Wetlands	Moist-soil unit	349	1.0000	1.0000	1.00000	0.0005	0	1,339	0.00%
		21,360	1.0000	1.0000	1.00000	0.0005	11	1,339	0.82%
Riverine Systems	Wet meadow	1,172,512	1.0000	0.5000	1.00000	0.0005	293	1,339	21.88%
		823,824	1.0000	0.5000	1.00000	0.0005	206	1,339	15.38%
Summary for Breeding (5 records)					<i>Pre-planning Sum</i>		682		50.93%
					<i>Post-planning Sum</i>		1,645		122.85%

Species/Guild Name: Snowy Plover

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Other Wetlands	Saline	12,877	1.0000	1.0000	1.00000	0.0585	753	802	93.89%
		12,875	1.0000	1.0000	1.00000	0.0585	753	802	93.89%
Riverine Systems	Unvegetated sandbar	8,312	1.0000	1.0000	1.00000	0.0059	49	802	6.11%
		8,312	1.0000	1.0000	1.00000	0.0059	49	802	6.11%
Summary for Breeding (2 records)					<i>Pre-planning Sum</i>		802		100.00%
					<i>Post-planning Sum</i>		802		100.00%

Species/Guild Name: Swainson's Hawk

Season: Breeding

Assoc Name	Condition Name	Condition		Large			CC	Goal	% of Goal
		Acres	Avail.	Suit.	Block	Units			
Cropland	Hay	654,659	0.5000	1.0000	1.00000	0.0016	524	31,214	1.68%

		654,812	0.5000	1.0000	1.00000	0.0016	524	31,214	1.68%
Cropland	Alfalfa	560,620	0.5000	1.0000	1.00000	0.0016	448	31,214	1.44%
		560,702	0.5000	1.0000	1.00000	0.0016	449	31,214	1.44%
Cropland	Pasture	0	0.5000	1.0000	1.00000	0.0016	0	31,214	0.00%
		0	0.5000	1.0000	1.00000	0.0016	0	31,214	0.00%
Cropland	Wheat	6,398,301	0.5000	1.0000	1.00000	0.0016	5,119	31,214	16.40%
		5,841,467	0.5000	1.0000	1.00000	0.0016	4,673	31,214	14.97%
Cropland	Wheat	6,398,301	0.5000	1.0000	1.00000	0.0016	5,119	31,214	16.40%
		5,841,467	0.5000	1.0000	1.00000	0.0016	4,673	31,214	14.97%
Mixed Grass	Few shrubs/ low grass	954,879	0.5000	1.0000	1.00000	0.0020	955	31,214	3.06%
		571,855	0.5000	1.0000	1.00000	0.0020	572	31,214	1.83%
Mixed Grass	Many shrubs/high grass	954,879	0.5000	1.0000	1.00000	0.0011	525	31,214	1.68%
		1,337,903	0.5000	1.0000	1.00000	0.0011	736	31,214	2.36%
Mixed Grass	Few shrubs/high grass	954,879	0.5000	1.0000	1.00000	0.0020	955	31,214	3.06%
		571,855	0.5000	1.0000	1.00000	0.0020	572	31,214	1.83%
Mixed Grass	Many shrubs/low grass	954,879	0.5000	1.0000	1.00000	0.0011	525	31,214	1.68%
		1,337,903	0.5000	1.0000	1.00000	0.0011	736	31,214	2.36%
Riverine Systems	Riparian canopy - late	13,490	0.5000	1.0000	1.00000	0.0016	11	31,214	0.04%
	successional w/ understory	43,603	0.5000	1.0000	1.00000	0.0016	35	31,214	0.11%
Riverine Systems	Wet meadow	1,172,512	0.5000	1.0000	1.00000	0.0016	938	31,214	3.01%
		823,824	0.5000	1.0000	1.00000	0.0016	659	31,214	2.11%
Riverine Systems	Riparian canopy - late	13,490	0.5000	1.0000	1.00000	0.0016	11	31,214	0.04%
	successional w/o understory	43,603	0.5000	1.0000	1.00000	0.0016	35	31,214	0.11%
Sand Sage	High grass	4,216	0.5000	1.0000	1.00000	0.0011	2	31,214	0.01%
		13,066	0.5000	1.0000	1.00000	0.0011	7	31,214	0.02%
Sand Sage	Low grass	80,106	0.5000	1.0000	1.00000	0.0011	44	31,214	0.14%
		248,256	0.5000	1.0000	1.00000	0.0011	137	31,214	0.44%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0011	128	31,214	0.41%
		139,251	1.0000	1.0000	1.00000	0.0011	153	31,214	0.49%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0020	232	31,214	0.74%
		92,834	1.0000	1.0000	1.00000	0.0020	186	31,214	0.60%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0011	128	31,214	0.41%
		139,251	1.0000	1.0000	1.00000	0.0011	153	31,214	0.49%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0020	232	31,214	0.74%
		92,834	1.0000	1.0000	1.00000	0.0020	186	31,214	0.60%
Summary for Breeding (18 records)							Pre-planning Sum	15,896	50.92%
							Post-planning Sum	14,486	46.40%

Species/Guild Name: Upland Sandpiper

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Pasture	0	0.3000	1.0000	1.00000	0.0154	0	70,940	0.00%
		0	0.3000	1.0000	1.00000	0.0154	0	70,940	0.00%
CRP	Native	1,406,629	0.3000	1.0000	1.00000	0.0080	3,376	70,940	4.76%
		2,782,489	0.3000	1.0000	1.00000	0.0080	6,678	70,940	9.41%
Mixed Grass	Few shrubs/high grass	954,879	0.3000	1.0000	1.00000	0.0190	5,443	70,940	7.67%
		571,855	0.3000	1.0000	1.00000	0.0190	3,260	70,940	4.60%
Mixed Grass	Few shrubs/ low grass	954,879	0.3000	1.0000	1.00000	0.0133	3,810	70,940	5.37%
		571,855	0.3000	1.0000	1.00000	0.0133	2,282	70,940	3.22%
Riverine Systems	Wet meadow	1,172,512	0.3000	1.0000	1.00000	0.0523	18,397	70,940	25.93%
		823,824	0.3000	1.0000	1.00000	0.0523	12,926	70,940	18.22%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.1570	32,136	70,940	45.30%
		253,812	1.0000	1.0000	1.00000	0.1570	39,848	70,940	56.17%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.0380	7,778	70,940	10.96%
		73,687	1.0000	1.0000	1.00000	0.0380	2,800	70,940	3.95%
Summary for Breeding (7 records)							Pre-planning Sum	70,940	100.00%
							Post-planning Sum	67,794	95.56%

Species/Guild Name: Western Kingbird

Season: Breeding

Assoc Name	Condition Name	Condition Acres	Avail.	Suit.	Large Block	Units	CC	Goal	% of Goal
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0040	25,593	1,035,227	2.47%
		5,841,467	1.0000	1.0000	1.00000	0.0040	23,366	1,035,227	2.26%
Cropland	Wheat	6,398,301	1.0000	1.0000	1.00000	0.0040	25,593	1,035,227	2.47%
		5,841,467	1.0000	1.0000	1.00000	0.0040	23,366	1,035,227	2.26%
Cropland	Hay	654,659	1.0000	1.0000	1.00000	0.0040	2,619	1,035,227	0.25%
		654,812	1.0000	1.0000	1.00000	0.0040	2,619	1,035,227	0.25%
Cropland	Pasture	0	1.0000	1.0000	1.00000	0.0040	0	1,035,227	0.00%
		0	1.0000	1.0000	1.00000	0.0040	0	1,035,227	0.00%
Cropland	Alfalfa	560,620	1.0000	1.0000	1.00000	0.0040	2,242	1,035,227	0.22%
		560,702	1.0000	1.0000	1.00000	0.0040	2,243	1,035,227	0.22%
CRP	Non-native	0	1.0000	1.0000	1.00000	0.0600	0	1,035,227	0.00%
		0	1.0000	1.0000	1.00000	0.0600	0	1,035,227	0.00%
CRP	Native	1,406,629	1.0000	1.0000	1.00000	0.0600	84,398	1,035,227	8.15%
		2,782,489	1.0000	1.0000	1.00000	0.0600	166,949	1,035,227	16.13%
Mixed Grass	Many shrubs/low grass	954,879	1.0000	1.0000	1.00000	0.0459	43,829	1,035,227	4.23%
		1,337,903	1.0000	1.0000	1.00000	0.0459	61,410	1,035,227	5.93%
Mixed Grass	Many shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0459	43,829	1,035,227	4.23%
		1,337,903	1.0000	1.0000	1.00000	0.0459	61,410	1,035,227	5.93%
Mixed Grass	Few shrubs/high grass	954,879	1.0000	1.0000	1.00000	0.0645	61,590	1,035,227	5.95%
		571,855	1.0000	1.0000	1.00000	0.0645	36,885	1,035,227	3.56%
Mixed Grass	Few shrubs/ low grass	954,879	1.0000	1.0000	1.00000	0.0645	61,590	1,035,227	5.95%
		571,855	1.0000	1.0000	1.00000	0.0645	36,885	1,035,227	3.56%
Other	Urban/Suburban	186,748	1.0000	1.0000	1.00000	0.2575	48,088	1,035,227	4.65%
		186,748	1.0000	1.0000	1.00000	0.2575	48,088	1,035,227	4.65%
Other	small roads	492,494	1.0000	1.0000	1.00000	0.0202	9,948	1,035,227	0.96%
		492,494	1.0000	1.0000	1.00000	0.0202	9,948	1,035,227	0.96%
Riverine Systems	Wet meadow	1,172,512	1.0000	1.0000	1.00000	0.0600	70,351	1,035,227	6.80%
		823,824	1.0000	1.0000	1.00000	0.0600	49,429	1,035,227	4.77%
Riverine Systems	Native riparian shrubland	11,582	1.0000	1.0000	1.00000	0.0600	695	1,035,227	0.07%
		262,981	1.0000	1.0000	1.00000	0.0600	15,779	1,035,227	1.52%
Riverine Systems	Riparian canopy - early successional w/o understor	20,303	1.0000	1.0000	1.00000	0.0600	1,218	1,035,227	0.12%
		20,303	1.0000	1.0000	1.00000	0.0600	1,218	1,035,227	0.12%
Riverine Systems	Riparian canopy - early successional w/ understory	20,303	1.0000	1.0000	1.00000	0.0600	1,218	1,035,227	0.12%
		20,303	1.0000	1.0000	1.00000	0.0600	1,218	1,035,227	0.12%
Sand Sage	Low grass	80,106	1.0000	1.0000	1.00000	0.0457	3,661	1,035,227	0.35%
		248,256	1.0000	1.0000	1.00000	0.0457	11,345	1,035,227	1.10%
Sand Sage	High grass	4,216	1.0000	1.0000	1.00000	0.0457	193	1,035,227	0.02%
		13,066	1.0000	1.0000	1.00000	0.0457	597	1,035,227	0.06%
Shortgrass	Many shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0641	7,438	1,035,227	0.72%
		139,251	1.0000	1.0000	1.00000	0.0641	8,926	1,035,227	0.86%
Shortgrass	Many shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0457	5,303	1,035,227	0.51%
		139,251	1.0000	1.0000	1.00000	0.0457	6,364	1,035,227	0.61%
Shortgrass	Few shrubs/high grass	116,042	1.0000	1.0000	1.00000	0.0457	5,303	1,035,227	0.51%
		92,834	1.0000	1.0000	1.00000	0.0457	4,243	1,035,227	0.41%
Shortgrass	Few shrubs/low grass	116,042	1.0000	1.0000	1.00000	0.0641	7,438	1,035,227	0.72%
		92,834	1.0000	1.0000	1.00000	0.0641	5,951	1,035,227	0.57%
Tallgrass	Few shrubs/ low grass	204,687	1.0000	1.0000	1.00000	0.0215	4,401	1,035,227	0.43%
		73,687	1.0000	1.0000	1.00000	0.0215	1,584	1,035,227	0.15%
Tallgrass	Many shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.0153	3,132	1,035,227	0.30%
		245,624	1.0000	1.0000	1.00000	0.0153	3,758	1,035,227	0.36%
Tallgrass	Many shrubs/low grass	204,687	1.0000	1.0000	1.00000	0.0153	3,132	1,035,227	0.30%
		245,624	1.0000	1.0000	1.00000	0.0153	3,758	1,035,227	0.36%
Tallgrass	Few shrubs/high grass	204,687	1.0000	1.0000	1.00000	0.0215	4,401	1,035,227	0.43%
		253,812	1.0000	1.0000	1.00000	0.0215	5,457	1,035,227	0.53%
Summary for Breeding (27 records)			Pre-planning Sum			527,203	57,203	50.91%	
			Post-planning Sum				592,796	57.25%	

Table 3. Estimated current acreage and desired future acreage of important bird habitats. Sums may not equal due to rounding errors in database calculations (discrepancies <5%).

Association Name	Condition Name	Pre-Condition Acres	Post Condition Acres	Net Change
Cropland	Alfalfa	560,620	560,702	82
Cropland	Sod farm	1,808	1,651	-157
Cropland	Wheat	6,398,301	5,841,467	-556,834
Cropland	Corn	1,244,215	1,135,932	-108,283
Cropland	Hay	654,659	654,812	153
Cropland	Pasture	0	0	0
Cropland	Sunflowers	99,465	90,809	-8,656
Cropland	Soybeans	770,400	703,354	-67,046
Cropland	Peanuts	0	0	0
Cropland	Sorghum	2,256,947	2,060,529	-196,418
Cropland	Fallow	0	0	0
Cropland	Other	6,098,098	5,461,391	-636,707
CRP	Non-native	0	0	0
CRP	Native	1,406,629	2,782,489	1,375,860
Mixed Grass	PD town	9,959	9,959	0
Mixed Grass	Few shrubs/high grass	954,879	571,855	-383,024
Mixed Grass	Many shrubs/high grass	954,879	1,337,903	383,024
Mixed Grass	Many shrubs/low grass	954,879	1,337,903	383,024
Mixed Grass	Few shrubs/ low grass	954,879	571,855	-383,024
Other	Other	3,566	3,566	0
Other	small roads	492,494	492,494	0
Other	Urban/Suburban	186,748	186,748	0
Other	4-lane roads	16,361	16,361	0
Other Wetlands	Saline	12,877	12,875	-2
Other Wetlands	Emergent marsh	74,137	74,137	0
Other Wetlands	Moist-soil unit	349	21,360	21,011
Playa	Wet	2,280	2,280	0
Playa	Dry	21,532	21,532	0
Playa	Wet pit only	1,520	1,520	0
Reservoirs Lakes Ponds	Pit	3,937		
Reservoirs Lakes Ponds	Lagoon	3,273	3,273	0
Reservoirs Lakes Ponds	Freshwater lake	1,065	1,065	0
Reservoirs Lakes Ponds	Reservoir	96,455	96,455	0
Reservoirs Lakes Ponds	Stock pond	49,648	49,648	0
Riverine Systems	Unvegetated sandbar	8,312	8,312	0
Riverine Systems	River channel	53,686	53,686	0
Riverine Systems	Native riparian shrubland	11,582	262,981	251,399
Riverine Systems	Warmwater slough	0	0	0
Riverine Systems	Riparian canopy - early	20,303	20,303	0
Riverine Systems	Wet meadow	1,172,512	823,824	-348,688
Riverine Systems	Riparian canopy - late	13,490	43,603	30,113
Riverine Systems	Floodplain marsh	48,917	48,917	0
Riverine Systems	Riparian canopy - early	20,303	20,303	0
Riverine Systems	Exotic riparian shrubland	0	0	0
Riverine Systems	Riparian canopy - late	13,490	43,603	30,113
Sand Sage	Low grass	80,106	248,256	168,150
Sand Sage	High grass	4,216	13,066	8,850
Shortgrass	Many shrubs/low grass	116,042	139,251	23,209
Shortgrass	Few shrubs/high grass	116,042	92,834	-23,208
Shortgrass	Few shrubs/low grass	116,042	92,834	-23,208
Shortgrass	Many shrubs/high grass	116,042	139,251	23,209

Tallgrass	Many shrubs/high grass	204,687	245,624	40,937
Tallgrass	Few shrubs/high grass	204,687	253,812	49,125
Tallgrass	Few shrubs/ low grass	204,687	73,687	-131,000
Tallgrass	Many shrubs/low grass	204,687	245,624	40,937
Sum		26,975,696	27,016,692	

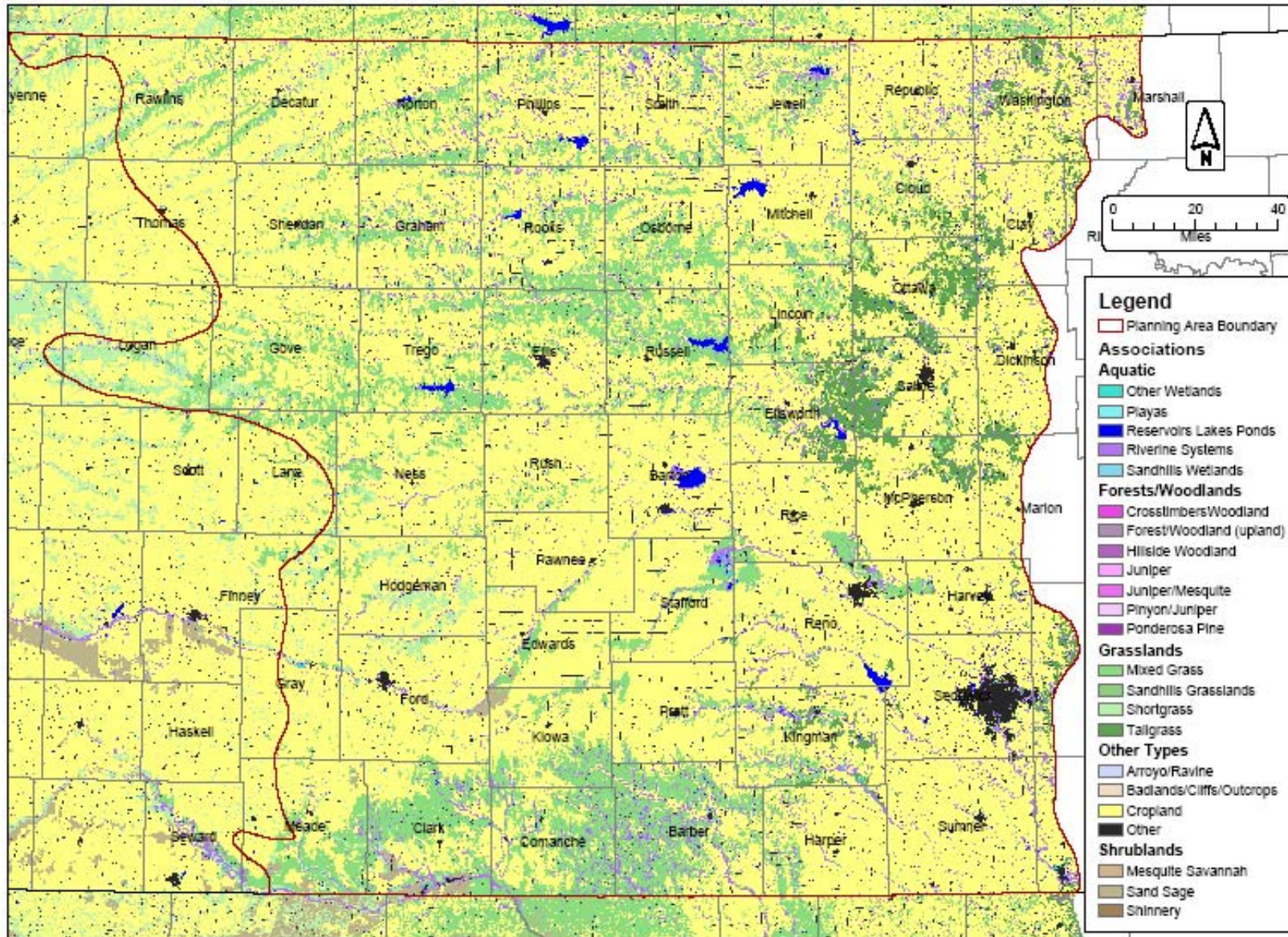


Figure 1. Bird habitat associations for the Central Mixed-grass Prairie Bird Conservation Region of Kansas.