APPENDIX E:

MANAGEMENT PLANS

Atterbury Fish and Wildlife Area 5-Year Management Plan 2011-2016
(Atterbury FWA Management Plan)

Deer Creek Fish and Wildlife Area Proposed Site Management Plan
(Deer Creek Management Plan)

ATTERBURY FISH &WILDLIFE AREA
5-YEAR MANAGEMENT PLAN
2011-2016

INTRODUCTION

This plan is to serve as a guide for the management of the remainder of Atterbury Fish & Wildlife Area after a proposed land exchange in which 1250 acres are to be released to the Military Department of Indiana (MDI) in exchange for 1990 acres of surplus land from the Indiana Department of Correction in Putnam County, Indiana.

PROJECT HISTORY

Atterbury Fish & Wildlife Area began when 5,409 acres of Camp Atterbury was purchased by the State of Indiana. Presently the property totals 6200 acres after several acquisitions and trades. When first acquired, the initial 5409 acres had been intensively grazed by cattle and sheep and 660 wood frame buildings occupied the center of the property. Grazing contractors were expected to put enough livestock on the ground to control all vegetation and expected to mow what the livestock left behind. The property was <1% forested. The only timber was a few grazed woodlots and forested ravines along Sugar Creek.

The National Campers & Hiker's Association's Camporee was hosted for a week in the summer of 1972 at then Gov. Whitcomb's invitation. The 660 buildings were demolished, temporary water lines and outhouses were constructed for this event.
Several impoundments were developed from 1972 to 1978. Stone Arch and Pisgah Lakes were constructed by contractors. The remaining impoundments were constructed by property personnel along with boat ramps, vault toilets and an ADA fishing pier.

After the Camporee, grazing was used to control woody vegetation in Areas 11, 12 & 13 but not in the area to be transferred. Grazing was discontinued in the early 80s when a greater emphasis was placed on prescribed burns.

The management of hunters began with issuing a badge and parking pass in exchange for their license which was held until the hunter returned from the field. Presently, hunters check in at a self registration booth located outside the headquarters and report their harvest and satisfaction on a daily hunter permit card deposited in a drop box upon exiting the property.

In 2000 a series of abandoned roads were gated and keys were issued to qualified physically challenged hunters. The areas were open to the public but only individuals with permits could hunt from a vehicle or use a vehicle to access the area.

The annual Put and Take Pheasant Program has taken place in the upland areas of Area 12 and 14 for over 30 years. The number of opportunities has been reduced slightly over the years to

increase the quality and safety of the program. In 2009, 78 hunters were assigned to Area 14 and 48 hunters were assigned to Area 12 each day for nine days beginning the Saturday before Thanksgiving. Small game hunters were excluded from the areas during the Put and Take Program.

A shooting range renovation project was completed 2007. The $4,700,000 renovation resulted in a fully baffled rifle/pistol range with 66 shooting positions on the firing line and a range building consisting of an office for the range safety officer, a sales area for a possible concession, public restrooms and vending area. Four combination trap/skeet fields were constructed along with a field building consisting of restrooms, storage and a registration/scoring area. The range is operated by an agreement with a concessionaire.

PUBLIC USE

The remaining property will continue to accommodate hunters, fishermen, trappers, dog runners, wildlife viewers, nature study, bird watchers, berry, nut, and mushroom gatherers. Fishing efforts should remain unchanged at about 15,000 efforts per year. Hunting efforts on the remaining land are expected to total about 9,000 efforts per year. The shooting range is expected to accommodate 22,000 efforts per year. Access to hunting areas for hunters with disabilities needs to be developed.

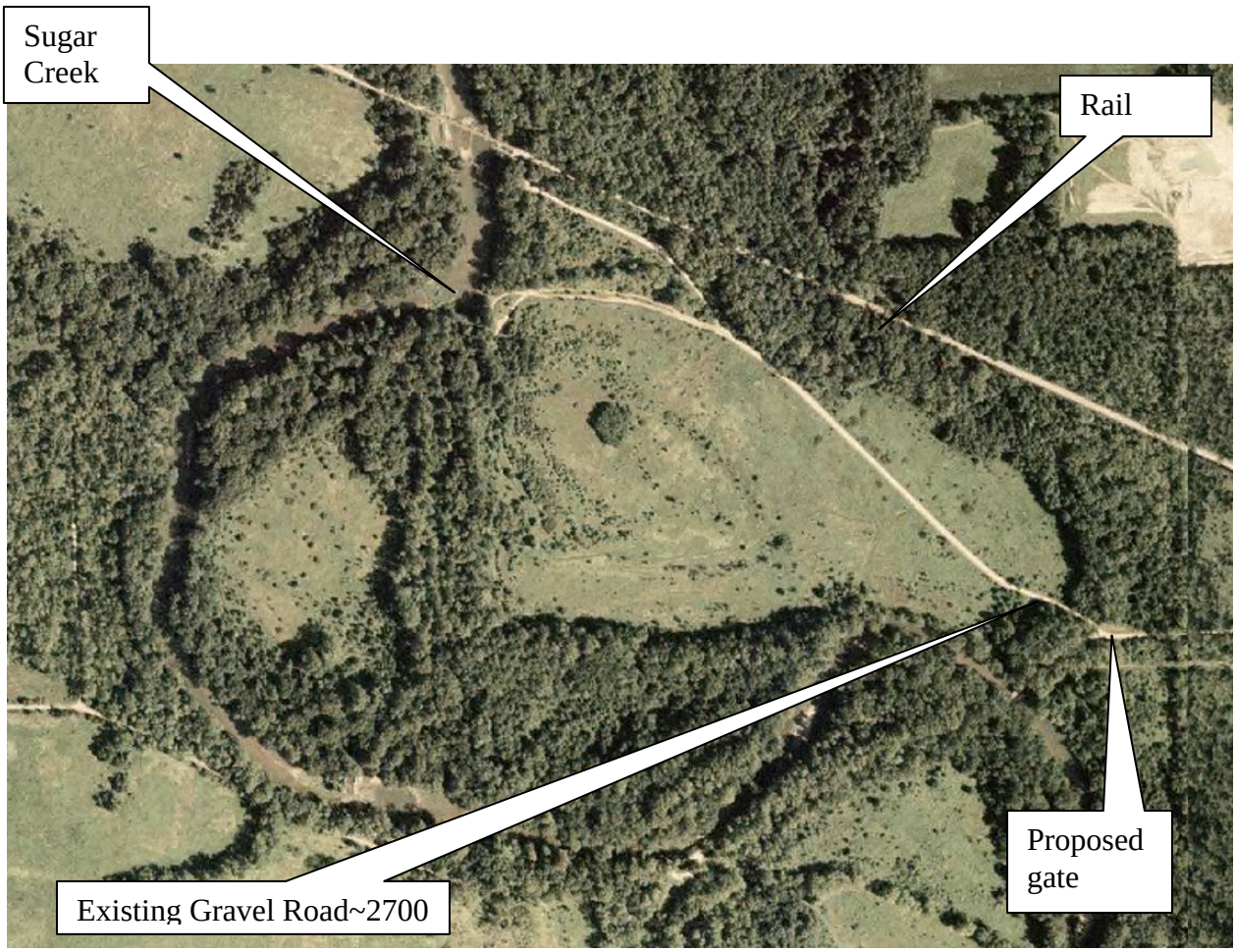
Deer, upland game and woodland game hunters will obtain daily hunting permits from a self-registration area outside the headquarters. Turkey hunting opportunities for the first 6 days of the season will be reserved. Hunters will apply online. Six hunters will be drawn for days 1-3 and 6 hunters will be drawn for the days 4-6 of the season. After the reserved hunts, 6 hunters a day will be allowed with a daily drawing conducted if needed. Dove hunting opportunities in lure crop fields are allocated by a drawing conducted on opening day. Waterfowl hunting opportunities will be allocated by a daily drawing until competition for opportunities decreases. Wetland trapping opportunities will be allocated by a drawing held each year on the first Saturday in October. Participants in the Put and Take Program purchase their hunts online. The number of hunters per day will be reduced by 50% from 126 to 63. Although scattered upland areas remain on the property, these areas are not large enough to release and hold pheasants.

SERVICE AREA, MAINTENANCE BUILDING DEVELOPMENT, OTHER IMPROVEMENTS AND ACTIVITIES

DFW staff will remain in the HQ/service area until suitable replacement facilities can be located or constructed. The DFW will work with the MDI to ensure access to the public shooting range, Sugar Creek and other parts of FWA.

The ADA hunting area below contains approximately ½ mile of abandoned gravel roads and replaces the ADA hunting area lost in the transfer area. This area, 120 acres, is bounded by Sugar Creek and the RR in Area 13. The area has ~2700 ft of existing gravel roads and an additional ~3200 feet of unimproved roads. The cost of adding a lockable gate is estimated to be minimal. This area is open to all hunters, but only those with a special hunting permit for disabled persons will be able to drive past the gate.

Proposed ADA Hunting Area



NEED

Atterbury FWA is located within 30 miles of Indianapolis, IN. The need for more acres of recreational land will continue. Public hunting areas are in high demand as private acres are becoming leased or owned by non-hunters

Several state-owned recreational properties are located with 30 miles of Atterbury Fish and Wildlife Area. These properties include one State Park, two State Forests and portions of a National Forest. See Exhibit A

SUITABILITY

Quality hunting and fishing opportunities can be provided on the remaining 5000 acres of Atterbury FWA, given appropriate staffing, equipment and management efforts. Numerous old fields, in various stages of vegetative succession can be managed for upland hunting opportunities. Woodlots, wooded ravines and creeks can provide woodland game hunting opportunities. The area retains 10 impoundments totaling 270 acres of water suitable for fishing and waterfowl hunting opportunities.

The property staff will continue to maintain 500 acres upland areas by burning, mowing, plowing and disking each year. 600 acres of old fields could be reclaimed and managed for early successional plant species. It is estimated that $38,600 would be needed annually for 6 years for these added succession control efforts. Succession control efforts will consist of reclaiming old fields with a bull dozer/root rake, offset disc, large rotary mower and chain saws.

Tenant farming does not currently exist at Atterbury FWA, but if approved, implementation of a tenant farm program would be a beneficial wildlife management technique. Farming activities on fish and wildlife areas conform to the Division's management guidelines. These guidelines include: 1) succession control 2) rotational schedule of fields to benefit wildlife including idle periods 3) receive services to allow completion of habitat work on other areas of the FWA 4) provide wildlife friendly transition between open areas and mature wooded areas 5) percentage of crops are left to provide additional food sources for wildlife in harsh winter months 6) when idled for a year these areas provide those very early succession plant species, especially forbs, that are important wildlife nesting and rearing areas for upland bird species.

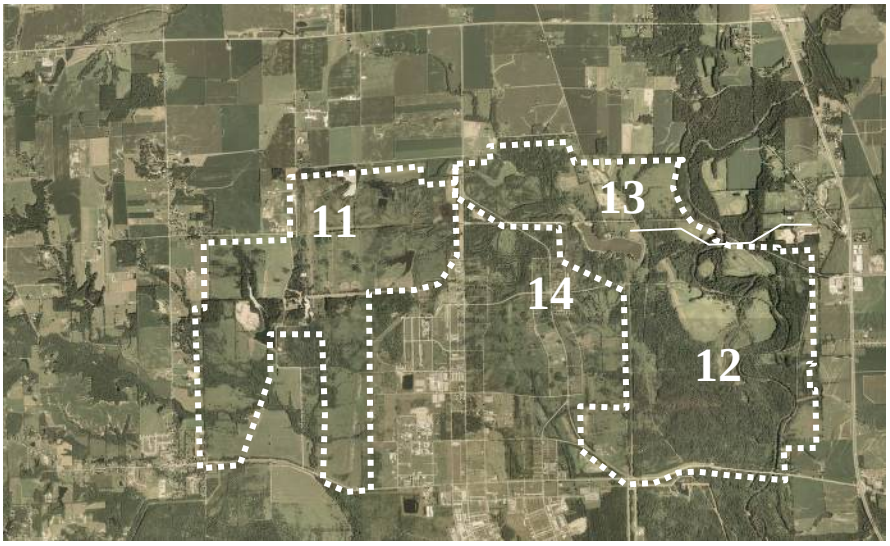
Services and materials will be exchanged for tenant farming rights as opposed to a monetary transaction.

Atterbury FWA does not have the manpower or funding to keep vegetative succession at a stage desirable for upland game species. Tenant farm fields, once established, could be rotated to provide a variety of crops and fallow ground. Fallowed ground, in its first year, is expected to yield early successional plant species, bare ground and a variety of insect life all of which are important for quail and other upland birds. Materials, services and equipment (fuel, old field reclamation or mowers) could be requested of the contractor.

CAPABILITY

The Department of Natural Resources, State of Indiana, is financially able to continue to manage the remaining property. All present facilities will be maintained, and additional features developed. Revenue support will be provided by the Department of Natural Resources through direct and collected fees.

Map #1-Atterbury FWA boundary and management areas



Map #2 Old fields to be reclaimed (green)

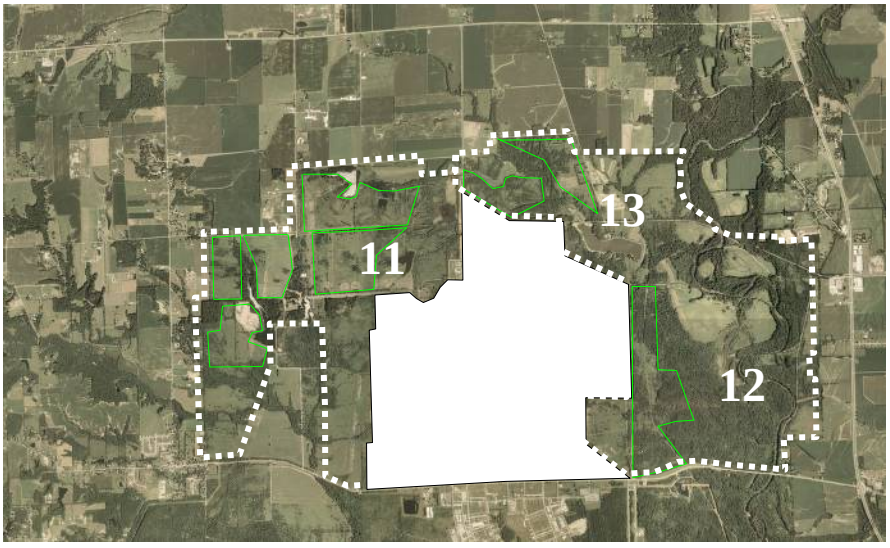


Exhibit A-State-owned parks, recreation areas, forest, fish & wildlife areas and state fishing areas within 30 miles of Atterbury Fish and Wildlife Area.

Property	Acreage/ Water	Uses Allowed
Morgan Monroe State Forest	25528	Hiking, camping, picnic, fishing, trapping, hunting,
Yellowwood State Forest	23446	Horseback riding, hiking, picnic, fishing, hunting and trapping
Brown County State Park	15776	Bicycle/mountain bike trail, horseback riding, hiking , picnic, fishing, swimming, Inn, cabins, camping
Monroe Lake	13952/10750	Hiking, picnic, wildlife viewing, birding, fishing, hunting, dog training areas, swimming, skiing,
Hoosier National Forest	200000	Camping, picnicking, hiking, backpacking, horseback riding, mountain biking, hunting, fishing,

Picture #1-Lure Crop Field-Sunflowers on left and last year's field idled on the right, Area 13

Picture #2-Prescribed burned and strip disced in the spring of 2010, Area 11

Picture #3-Prescribed burned in Spring 2010 and warm season grasses sown 2008, Area 13

Picture # 4-Old field to be reclaimed, Area 13

DRAFT
Atterbury Fish & Wildlife Area
Estimated Costs for Succession Set Back

600 acres of old fields throughout the remaining FWA could be reclaimed to help offset the loss of upland habitat after to the land swap. Succession control and old field reclamation can be completed under the property's succession control work plan (Project 300FW0SITE07000 SITE613). The following are estimated annual costs assuming we could reclaim 100 acres/year. The number of acres treated each year may vary due to equipment availability, weather and funding.

Equipment / personnel	**Annual cost**
Dozer w/root rake and bog disc @ $300/acre	$15,000
Heavy duty rotary mower @ $300/acre	$15,000
Labor-Property Manager & Ass't-30 hours	$600
One LTC to operate rotary mower-30 days	$3,000
One heavy equipment operator	$5,000
Total costs	$38,600

DEER CREEK FISH AND WILDLIFE AREA
PROPOSED SITE MANAGEMENT PLAN
GRANT FW 27- L-10

INTRODUCTION

This site plan is intended to serve as a guide for the development of Deer Creek Fish and Wildlife Area. It will describe, in overview form, the Division of Fish and Wildlife's goals and objectives for start up and development of the property.

PROJECT HISTORY

Deer Creek Fish and Wildlife Area was part of the Putnamville Correctional Facility and was a working grain, hay and livestock farm. Deer Creek FWA is approximately 1,990 acres of rolling interspersed agriculture and mature oak hickory dominated woods.

There are nine barns located on the "North Ranch" portion. They are considered in good to excellent condition. Four structures are brick with metal roofs; three are metal pole barn styles with metal roofs; and two are wood frame structures, wood sided with metal roofs. Five brick metal roof "hog facilities" in poor repair are located on the South Ranch section. Exhibit A lists information about all structures on the property.

Much of the perimeter of the property is fenced with wooden posts and woven wire, considered in excellent condition. Some sections of the interior are also fenced. All interior roads are hard surface, black topped, in fair to good condition. There is one concrete creek crossing, one concrete bridge and one historic iron bridge labeled 1908 on its superstructure. These structures appear to be in good condition and will be inspected by DNR engineers.

A four acre pond with adjoining picnic shelter exists. The picnic shelter will be retained and upgraded to ADA standards. Playground equipment associated with the Shelter House, which does not meet ADA standards, will be removed.

Deer Creek winds through the south portion of the property and is associated with one low head dam, the iron bridge and a concrete creek crossing. A smaller unnamed creek crosses the north portion, running under a concrete bridge.

Limestone is the predominate geologic feature. Soils are in the Alford, Ava, Bartle, Chagrin, Chetwynd, Cincinnati, Corydon, Gilpin, Elkinsville, Fox, Grayford, Hickory, Iva, Muren, Parke, Shoals, Stonelick, Udorthents and Whitaker series.

PUBLIC USE AND ACTIVITIES WITH OTHER DNR DIVISIONS

The primary use of the property will be to provide opportunities for hunters, fishermen and trappers. Compatible secondary uses will include: wildlife watching, nature study, berry, nut, and mushroom gathering. Primary uses will always have precedence over secondary uses. Dog running during the established "running season" of February 15th – October 14th season will not be allowed except during the normal hunting season dates due to security concerns associated with the prison. Some hunting seasons will be allocated by drawing to improve the quality of the hunting opportunity. Some activities will be open to self service sign in and check out.

A conservative approach will be used in the allocation of hunting opportunities for some species. The proximity to two large metropolitan areas, the newness factor of the property and limited quality habitat at this time make it important to allocate property user opportunities conservatively until quality habitats are established and user patterns are better understood.

Non-toxic shot will be required for all upland game and waterfowl hunting.

Fishing will be permitted almost year round. On some occasions fishing, and access to fishing areas, may be closed due to certain hunting activities.

Gathering of nuts, berries and mushrooms will be permitted, but regulated. Foraging and gathering will be allowed outside the major hunting seasons by a self service sign in and sign out.

Access to interior areas of the property will be by foot traffic only with the exception of special events and/or physically challenged individuals. The picnic shelter will be used for special events. The play ground equipment will be removed.

Initial property use is estimated to be approximately 4,250 visitor days annually, including activities such as hunting, fishing, trapping, mushroom, fruit and nut gathering, and nature studying. Best estimates for users include 3,500 hunters and trappers, 100 anglers and 650 wildlife viewers, mushroom hunters and other non-licensed users.

As the result of standard farming practices, and the subsequent focus on row crop and hay production land management, quality wildlife habitat is currently below optimal capacity for this property. Transitions zones between the farm fields and wooded areas show little diversity and lack those mid-level plant species that are important as escape and nesting/brood habitat. Professional wildlife management techniques will be used to enhance these transition zones with a focus on early succession habitat which is in short supply on Indiana Public lands.

The timber management and field edge feathering are terms for habitat management practices that have short and long term components and can be incorporated in the same

management plan. Timber management, accomplished in a manner consistent with the Fish and Wildlife Service Indiana Bat guidelines, involves selective trimming to develop and maintain timber stands representing a wide range of ages and species of trees, as well as maximizing the linear edge of woodlots. The removal of trees for wildlife in the initial years will concentrate on those areas adjacent to the agricultural fields and will take into consideration all endangered species. In some cases small sections or individual trees will be taken and in others longer linear sections will be cut to encourage higher stem densities.

Edge feathering in the agricultural areas will consist of planting of small trees and shrubs, legume patches and establishing warm season grasses. Edge feathering is a practice designed to extend the early succession habitat commonly found at the woodland edge into agriculture fields in a manner that increases the linear edge of the early succession habitat, enhances travel lanes and provides for plant species important to upland species such as ground nesting birds. Softening of the edge in timbered areas will involve moving early succession habitat into the standing timber and adjacent farm fields to provide diversity and increased linear edge that can not be produced by allowing succession to advance only in agricultural areas. A wildlife management based timber management strategy will be developed to establish current conditions and identify needed practices that would benefit wildlife such as increase both soft and hard mast producing trees and trees suitable as nest/den sites. The existing firewood program administered by PEN (Prison Enterprises Network) will be discontinued by mutual agreement.

The potential for constructing shallow wetlands for wildlife management will be evaluated and pursued if appropriate. Longer term forest management plans will include the harvest of timber to enhance wildlife habitat, remove species of little value and protect the health of the forest ecosystem. Control of non native invasives will be considered. Labor force is most likely the limiting factor in the implementation of these practices.

Following the exchange, this property will be covered by a Wildlife and Sport Fish Restoration federal interest, similar to most other DFW Fish and Wildlife Areas. Management activities will become part of the FW22D Property Operations Grant and will be conducted in a manner consistent with federal assurances for construction and non-construction programs. Specifically, all management activities would follow all applicable Section 7, Endangered Species guidelines established by USFWS Bloomington's field office, Section 106 guidelines for protection of cultural and historic resources and Section 504 guidelines for accessibility under the Americans with Disabilities Act (ADA).

The Atterbury Fish and Wildlife Area exchange parcel, which is being replaced by this parcel, provided some forms of enhanced accessibility in the form or abandoned road beds that provided easy access and walking trails for persons with limited mobility, but that do not qualify as disabled under the ADA. While not a legal requirement, the Deer Creek Area will be managed to provide farm field access lanes and interior maintenance

roads that mirror the function of the abandoned roads favored by some property users at Atterbury FWA.

SURPLUS BUILDINGS

On the north ranch portion, all the buildings and the play ground equipment will be removed, consistent with Section 106 review and approval, with the exception of the two 40 by 100 pole buildings (# 8 & # 9)and the picnic shelter. All of the buildings on the south ranch will be removed. Future plans include renovating either building # 8 or # 9 into an office, check station and shop area. The other building will be retained as storage for equipment and materials.

SERVICE AREA, MAINTENANCE BUILDING DEVELOPMENT, OTHER IMPROVEMENTS AND ACTIVITIES

Some form of renovation of the 40 by 100 pole building, barn # 8, will take place within 18 months of the transfer of property to DNR. The demolition of the remaining buildings/structures is also planned to take place within 18 months of transfer. Parking lots, boundary signs and an informational kiosk are planned to be in place before the time of transfer so that the public can access the area when DNR takes possession. Interior fences that are not needed will be removed. Five parking lots will be established: one in each of the southwest southeast and northeast corners as well as one near the southeast portion of the north ranch and one on County Road 600 to provide access to the property.

Because of the current staffing restrictions within the DNR, personnel from Wabashiki, Minnehaha and Goose Pond FWA's will all contribute towards the management of Deer Creek at some level. Spring and fall time periods are expected to require a higher level of management presence since these are times food plots are established, prescribed burns usually take place and hunters numbers are managed. Summer and winter periods are expected to require less onsite personnel since the majority of activities will center around fishing opportunities (summer) and the usual winter down time. With little wetlands on site, late fall and winter waterfowl hunting is not expect to be a high demand activity.

Minimum property management equipment needs include medium size tractor (100 horsepower) with loader, bush hog, lawn mower and all terrain vehicle. Additional equipment will be needed as tenant farming is phased down.

The current tenant farming lease will remain in effect but will be modified to conform to the Division's management guidelines covering farming activities on fish and wildlife areas. These guidelines include: 1) succession control 2) rotational schedule of fields to benefit wildlife including idle periods 3) receive services to allow completion of habitat work on other areas of the FWA 4) provide wildlife friendly transition between open

areas and mature wooded areas 5) percentage of crops are left to provide additional food sources for wildlife in harsh winter months 6) when idled for a year these areas provide those very early succession plant species, especially forbs, that are important wildlife nesting and rearing areas for upland bird species.

The use of pesticides will be allowed by prior approval of the Property Manager only on the areas used to grow the agricultural crops. All pesticide use must be in accordance with label directions. Offsite use will not be allowed. Any pesticide use on the permanent buffer areas will be done by fish and wildlife personnel with appropriate applicator certification and only to help establish native vegetation. Professional consultation with groups such as the Fish and Wildlife Service Bloomington Field Office will be used to develop the most compatible approach to herbicide use in any sensitive areas.

Services and materials will be exchanged for tenant farming rights as opposed to a monetary transaction.

The present tenant farming lease provides for agriculture operations on 588 acres. This acreage value could change due to farming other acres that are presently in pasture or hay and removing acres from the lease for wildlife habitat development. The primary use of tenant farming will be to control succession, help establish better wildlife habitat and provide a winter wildlife food supply. Tenant farming is expected to be reduced to approximately 300 acres in future years and rotating those remaining acres on a three to four year basis.

Wildlife management tenant farming will be based on a two year lease, with a rotation of fields to maintain early succession habitat types. During the developmental stages of this property, approximately 80% of the available 588 lease acres will be farmed with subsequent contracts having reduced acreage as staff has time to develop long term habitat types, warm season grasses, tree and shrub plantings and shallow water marshes. In exchange for these acres farmed the tenant farmer will supply the Indiana Division of Fish and Wildlife with goods and services. Examples of items subject to this barter exchange include, but are not limited to, herbicides, fertilizer, stone, seed, fuel, equipment and crops left standing. Services might include custom farming and seed handling.

There is currently a small pistol range located in Area III. The range was used by DOC employees for training purposes. This range does not meet the standards of the division for a public use range and will be closed. The method of closure is based on recognition of the deed covenant which provides that this area will never be used for residential or manufacturing occupation and involves covering the range with a bed of topsoil to a depth of approximately six inches, stabilization with fertilizer and vegetation as prescribed by shooting range closure best management practices and as approved by FWS. Estimated cost is $5,000.

NEED

This property is located within 30 miles of two large metropolitan cities, Indianapolis, IN and Terra Haute, IN, population growth is expected as Indiana has a growing population and these cities and surrounding areas are considered desirable. The need for more acres of recreational land will continue and public hunting areas are in higher demand, private acres are becoming leased and off limits due social and economic issues.

State owned recreational properties located within 30 miles of Deer Creek Fish and Wildlife Area include four (4) State Parks, two (2) Reservoir properties, two (2) Fish and Wildlife Areas, one (1) State Fishing Area and numerous Public Access Sites for a total of 54,924 acres. Attached “Exhibit B” catalogs acres and uses for each of these properties.

SUITABILITY

The subject area, with its varied topography, vegetation, associated animal life and picturesque streams lends itself quite well to a recreational development. The existing utilities and infrastructure on the property will be significant aids in the administration and control of activities. There is excellent public access to the property as there are major highways: Interstate 70, US 40, US 231 and State Rd 243 lead people to the area and black top county roads providing direct access. Access could also be obtained by small watercraft along Deer Creek.

CAPABILITY

The Department of Natural Resources, State of Indiana, is financially able to acquire, operate, develop and maintain the necessary facilities on the subject property. An Area Manager, with the necessary labor compliment, will be in charge of operations. Daily law enforcement activities will be the responsibility of the Department of Natural Resources law enforcement division. All required facilities will be maintained and additional facilities including but not limited to parking lots, boundary signs, informational kiosks, a hunter check station and ADA compatible facilities/opportunity areas will be developed. Revenue support will be provided by the Department of Natural Resources through direct collection fees.

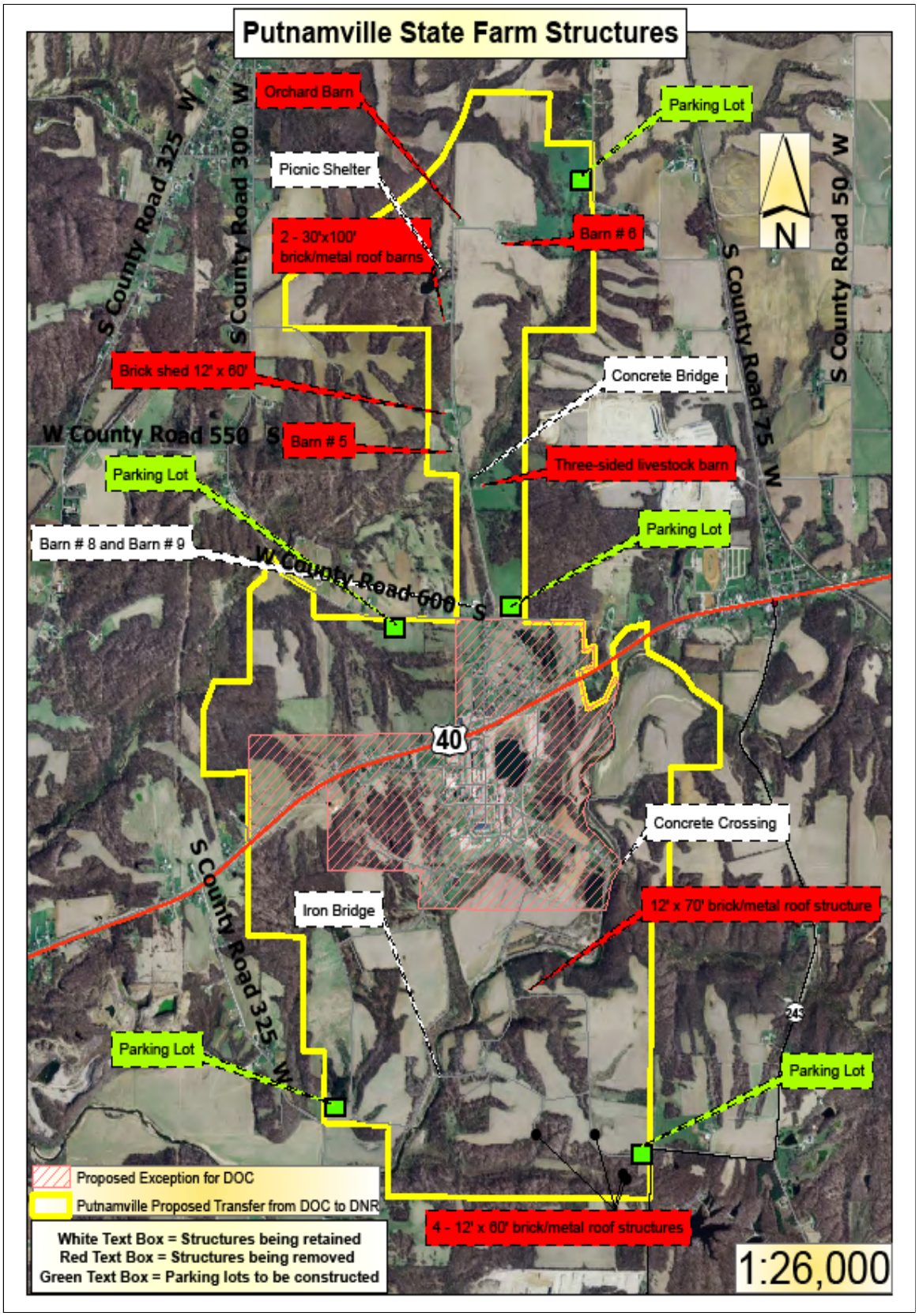

Putnamville State Farm Structures
Orchard Barn
Parking Lot
Picnic Shelter
Barn # 6
2 - 30'x100' brick/metal roof barns
S County Road 325 W
S County Road 300 W
S County Road 50 W
S County Road 75 W
N
Brick shed 12' x 60'
Concrete Bridge
W County Road 550 S
Barn # 5
Three-sided livestock barn
Parking Lot
Parking Lot
Barn # 8 and Barn # 9
W County Road 600 S
40
Concrete Crossing
S County Road 325 W
Iron Bridge
12' x 70' brick/metal roof structure
Parking Lot
Parking Lot
Proposed Exception for DOC
Putnamville Proposed Transfer from DOC to DNR
4 - 12' x 60' brick/metal roof structures
White Text Box = Structures being retained
Red Text Box = Structures being removed
Green Text Box = Parking lots to be constructed
1:26,000

EXHIBIT A
Buildings and Structures

Buildings to Be Retained

Name of Building	Size/Type	Sq. FT
Barn # 9	40x100x16 metal pole barn With electric	4,000
Barn # 8	40x100x16 metal pole barn With electric	4,000
Picnic Shelter	24x36	864

Buildings Not To Be Retained

Unnamed	30x100x10 brick/metal roof Three sided old livestock	3,000
Unnamed	30x100x10 brick/metal roof Three sided equipment storage	3,000
Barn # 5	30x36x10 wood frame, wood Sided/metal roof	1,080
Orchard barn	48x48x16 metal pole barn	2,304
Barn # 6	45x60 wood frame, wood sided/ metal roof with hay lo	2,700

Playground Equipment

Unnamed	30x100x10 brick/metal roof Three sided livestock barn/ Running water	3,000

Unnamed	12x60 brick/metal roof	720
Unnamed	12x60 brick/metal roof	720
Unnamed	12x60 brick/metal roof	720
Unnamed	12x60 brick/metal roof	720
Unnamed	12x60 brick/metal roof	720
Unnamed	12x60 brick/metal roof	720
Unnamed	12x70 brick/metal roof	840

Other Structures to Be Retained

Concrete Creek Crossing @12’x100’x1.5’
Across Deer Creek

Iron Bridge dated 1908 @10’x80’x16’
Over Deer Creek

Concrete Bridge @10’x30’
Over unnamed creek

Interior Hard Surface Roads @eight miles

EXHIBIT B
STATE OWNED PARKS, RECREATION AREAS, FORESTS, FISH AND WILDLIFE AREAS AND STATE FISHING AREAS WITHIN 30 MILES OF DEER CREEK FISH AND WILDIFE AREA.

Property	Acres	Uses Allowed
Turkey Run State Park	2,382	Camping, hiking, fishing horseback Riding, swimming, historic features, Interpretive/nature center.
Shades State Park	3,082	Camping, hiking, fishing, interpretive/nature center.
McCormick's Creek State Park	1,924	Camping, hiking, interpretive/nature center, horseback riding, swimming.
Raccoon Sate Recreation Area	4,065	Archery range, camping, fishing, hiking, hunting, interpretive/nature center, swimming.
Lieber State Recreation Area	8,075	Camping, fishing, hiking, hunting, interpretive/nature center, swimming.
Owen/Putnam State Forest	6,245	Camping, hiking, horseback riding, hunting, mountain bike riding.
Morgan/Monroe State Forest	24,000	Camping, fishing, hiking, hunting.
Chinook State Fish & Wildlife Area	2,291	Fishing, hunting, trapping, wildlife viewing.
Wabashiki State Fish & Wildlife Area	2,700	Fishing, hunting, trapping, wildlife viewing.
Green Valley State Fishing Area	160	Fishing, hunting, wildlife viewing.

EXHIBIT C
Deer Creek Fish and Wildlife Area
Estimated Costs to Open and Begin Operations

ONE-TIME COSTS

Entrance signs, gates, user check in stations. 4,000.00

Parking lots- stone, culverts etc., Material: 14,000.00 Installation: $10,000.00
Total: $24,000.00

Boundary marking- three employees one week plus signs, posts and hardware. 2,500.00

Fencing

Establish new fence between DOC and DNR along common boundary: 3.5 miles at 2.50 per foot = $46,200.00

Fencing around maintenance buildings:

1450 ft. of chain link fencing around buildings #8 and #9 @ $25.25/ft.=$36,612.50

Boundary Signs: DNR/DOC and DNR/Private Property: 290 @ $ 8.50 ea. = $2,465.00

** Removal of existing structures: 13 @ $5,000.00 ea. = $65,000.00

* Capping of three water wells: $15,000.00

Establishment of permanent wildlife habitat:

Tree and shrub planting 25 acres at 400.00/acre. 10,000.00
Warm season grasses 100 acres at 245.00/acre. 24,500.00
Legume planting 25 acres at 50.00/acre. 1,250.00

Shooting Range Closure/Cleanup: $5,000.00 Includes covering existing range area with soil, stabilization and planting vegetation according to range closure best management practices.

EXHIBIT C (Continued)
Deer Creek Fish and Wildlife Area
Estimated Costs to Open and Begin Operations

Equipment:

Tractor (100 hp front wheel assist w loader)	$60,000.00
Bat-wing Mower	$12,000.00
Bush Hog	$ 5,000.00
Disk	$15,000.00
Plow	$21,000.00
Tool chest and small tools	$ 5,000.00
Prescribed fire equipment	$12,000.00
Sprayer (300 gal)	$ 4,500.00
Trailer	$ 5,000.00
Lawn mower	$ 12,000.00
Gator ATV	$ 15,000.00

Total estimated costs to open and begin operations: $403,027.50

* Estimate only

** Estimate based on removal of structures from other FWA's

EXHIBIT C (Continued)
Deer Creek Fish and Wildlife Area
Estimated Costs for Annual Operation

RECCURING COSTS AFTER OPERATIONS ARE ESTABLISHED:

Control of noxious and non native invasive plants. 5,000.00/year

Labor for year, day to day operation.

One intermittent 180 position. 13,000.00
One LTC, 50 days/year. 5,000.00
One Property Manager 50, days/year. 10,000.00
One assistant property manager, 50 days/year. 7,500.00
One administrative assistant, 10 days per/year, 1,000.00

EXHIBIT D
Deer Creek Fish and Wildlife Area
User Management

Property closed Tuesday, Wednesday and Thursday, except for spring turkey season.
Hunter management:

Squirrel- self service sign in and check out.

Upland game – Quail/Rabbit, Saturdays only, 2 parties (two hunters per party) bird hunters and two parties (up to four hunters per party) rabbit hunters. Allocated through computer draw and explaining that at present time there is little upland habitat but plans are in the works to address this issue. No stand-by draw.

Turkey-spring allocated by computer draw, five three day hunts, two, two day hunts. No stand by draw. Four hunters drawn for each time frame and they may bring one non hunting partner. Hunt ½ hr before sunrise till 1 pm EST.

Turkey-fall may be taken by deer hunter if hunter is licensed to do so.

Deer- allocated by computer draw, 20 hunters per hunt time frame, each successful applicant, 10 per hunt period, can bring one hunting partner, hunts are for four days Friday thru Monday. Tree stands must have name, address and phone number, can not penetrate bark of tree and must be removed at the end of the hunters hunt period.

Waterfowl-self service sign in and check out Friday, Saturday, Sunday and Monday only.

Dove- tenant farmed, planted and sprayed sunflowers, up to 40 shooters, Saturdays and Mondays only through September, allocated though computer draw. Hunt noon to five, non-toxic shot required and shot shell restriction on number per day.

Woodcock, Snipe, Rail, Coots and Crows-not open.

Night hunting-not open.

Trapping management:

Wetland and upland-by drawing in person, first Saturday of October one trapper and partner per each of the two seasons set by other properties, drawing may take place at another property.

Fishing management;

Open year round, day light hours only, walk in only to two ponds and Deer Creek.

Mushroom hunting open after 1:00 pm EST. Friday, Saturday, Sunday and Monday only.

Berry picking Friday, Saturday, Sunday and Monday.

Nut picking will be addressed on case by case basis.

Wildlife watching, nature study and similar activities are open Friday, Saturday, Sunday and Monday, outside the major hunting season, deer, turkey and upland game.

EXHIBIT E
Deer Creek Property Structure Photos

Iron Bridge

Creek Crossing

Barn #5

Barn #6

Barn #8

Barn #9

Equipment Storage Building

Current Livestock Building

Old livestock building

Picnic Shelter

Storage Building

Roadway