

Office of Resource Conservation - State of Illinois

Project Number: T-100-D-1

Final Report

For the reporting period, 11/01/2015 to 06/30/2021

Project Title: Habitat Enhancement for Nightjars at Stephen A. Forbes State Park

Purpose and Objectives: Increase the overall open woodland communities at Stephen A. Forbes State Park through understory removal of undesirable maples and hickories on 1676 forested acres and implementing prescribed burning on an additional 2400 acres of woodland communities. These additional open woodland acres will provide critical additional habitat for nightjars and other Illinois species in greatest need of conservation that are dependent upon open woodland communities. The continuation and expansion of the existing MOON route at Stephen A. Forbes State Park will document if the habitat enhancement project maintains the existing nightjar population levels and if nightjar populations to expand into the enhanced habitats. If additional funding is obtained, the Illinois Natural History Survey may expand the research component and conduct additional surveys to document nightjar nest site selection, foraging habitats and use of various habitat types related to management practices.



Open Woodland Community at Stephen A. Forbes State Park, Marion County, Illinois

Approach:

To improve degraded open woodland communities at Stephen A. Forbes State Park in Marion County, Illinois habitat enhancement through understory removal of undesirable woody vegetation on 1676 acres and a prescribed fire program on 2400 acres will be implemented through this grant.

1. A contractor will be hired to remove undesirable woody species (sugar maple and hickory) from the understory of degraded open woodland communities on 1676 acres of degraded open woodland communities (Figure 02) using Federal Funds. All woody vegetation will be removed by cut stump method; all stumps will be treated by a licensed herbicide applicator following IDNR guidelines for herbicide application.

This objective was completed. A contractor Stice Forestry was contractually hired by the State of Illinois to complete the removal of undesirable woody species on 1676 acres of degraded open woodland communities at S.A. Forbes State Park (Figure 01). Stice Forestry started the project on December 29, 2020 and completed the project on June 30, 2021. Stice Forestry was the low bidder on the project and was awarded a contract for \$142,230.00 - Contract #ORC16959 Agency Reference Number 20-422DNR-RESCO-B-16959 for invasive woody control at Stephen A. Forbes State Park. The contract funded 2586-man hours of invasive woody control at \$55.00 per hour.



Example of removal of undesirable woody species in open woodland communities at Stephen A. Forbes State Park

2. Illinois Department of Natural Resources (IDNR) staff will conduct prescribed burning on 2400 acres of open woodland communities during the three-year duration of the project as match. All prescribed burning will follow an approved IDNR prescribed burn plan and will be conducted by trained staff and overseen by a certified prescribed burn manager. All prescribed burning will follow guidelines provided by the IDNR prescribed burn policy.

This objective was completed. During the duration of this grant (2015 to 2021), IDNR has conducted 29 prescribed burns totaling 4,692 acres of open woodland communities at Stephen A. Forbes State Park. This includes 17 acres in 2015, 617 acres in 2016, 1104 acres in 2017, 200 acres in 2018, 1099 acres in 2019, 655 acres in 2020 and 1000 acres in 2021. IDNR exceeded the targeted acreage in Objective #2 by 2292 acres.

Burn Summaries

2015 - IDNR conducted one prescribed burn during 2015 at Stephen A. Forbes State Park on open woodland communities on November 09, 2015 totaling 17 acres (Figure 02).

2016 - IDNR conducted nine prescribed burns on open woodland communities at Stephen A. Forbes State Park totaling 617 acres. A 347-acre burn was conducted on February 22, 2016 (Figure 03), and a 75-acre prescribed burn was conducted on February 23, 2016 (Figure 04). IDNR also conducted six growing season burns totaling 17.0 acres during 2016, these included two prescribed burns on August 24, 2016 totaling 4.0 acres (Figure 05), two burns totaling 7.66 acres on August 25, 2017 (Figure 06), one burn on September 13, 2017 totaling 5.0 acres (Figure 07), one burn on September 22, 2016 totaling 0.4 acres (Figure 08) and one burn totaling 178 acres on November 21, 2016 (Figure 09).

2017 - IDNR conducted six prescribed burns on open woodland communities at Stephen A Forbes State Park totaling 1104 acres for this reporting period. The following prescribed burns were conducted during this reporting period; a 67 acre burn was conducted on February 15, 2017 (Figure 10), a 550 acre burn was conducted on February 16, 2017 (Figure 11), a 5 acre burn was conducted on August 14, 2017 (Figure 12), a 1.25 acre burn was conducted on August 14, 2017 (Figure 13), a 59 acre burn was conducted on October 02, 2017 (Figure 14) and a 422 acre burn was conducted on December 11, 2017 (Figure 15).

2018 - IDNR conducted one prescribed burn on open woodland communities at Stephen A. Forbes State Park totaling 200 acres on March 19, 2018 (Figure 16).

2019 - IDNR conducted three prescribed burns at Stephen A. Forbes State Park on open woodland communities, totaling 1099.5 acres. A prescribed burn conducted on March 18, 2019 (Figure 17) totaling 1094 acres. In addition, two growing season burns totaling 5.5 acres were conducted on September 05, 2019: a 4.0 acre burn on the Marlow Pond Prairie (Figure 18) and a 1.5 acre burn at Stagecoach Prairie (Figure 19).

2020 - IDNR conducted four prescribed burns on open woodland communities at Stephen A. Forbes State Park, totaling 655 acres (Figure 20). Two prescribed burns were conducted on April 07, 2020 totaling 320 acres and 136 acres respectively. Two prescribed burns were also conducted on April 08, 2020 totaling 87 acres and 110 acres.

2021 –IDNR conducted five prescribed burns on open woodland communities at Stephen A. Forbes State Park, totaling 1000 acres (Figure 21). two prescribed burns totaling 425 acres were conducted on March 22, 2021, two prescribed burns totaling 268 acres were conducted on March 24, 2021 and one prescribed burn was conducted on March 29, 2021 totaling 307 acres.



3. The Illinois Department of Natural Resources will hire a contractor to remove undesirable woody species (sugar maple and hickory) from the understory of degraded open woodland communities on 100 acres of degraded open woodland communities using State Funds as match. All woody vegetation will be removed by cut stump method; all stumps will be treated by a licensed herbicide applicator following IDNR guidelines for herbicide application.

This objective was completed. The 2019 project met Objective #3 and additional projects in 2018, 2017 and 2016 exceeded the acreage requirement.

2019 - IDNR used state funds: Illinois Habitat Stamp Funds through the Wildlife Division to hire a contractor to remove undesirable woody species from 100 acres of open woodland communities

at Stephen A. Forbes State Park (Figure 22). The contractor Forest Resources received \$10,000.00 for the project, the project was started in late summer and completed in early fall 2019 following IDNR guidelines.

2018 -IDNR applied for and received a National Wild Turkey Federation grant for \$4,500.00 to implement undesirable woody species on 50 acres of open woodland communities at Stephen A. Forbes State Park (Figure 23). The contractor - Bundy Tree Farm received the contract for the project, the project was started on January 22, 2018 and completed on February 19th, 2018.

2017 - IDNR applied for and received a National Wild Turkey Federation grant for \$15,000.00 to implement undesirable woody species on 167 acres of open woodland communities at Stephen A. Forbes State Park (Figure 24). The contractor - Bundy Tree Farm received the contract for the project, the project was started on January 01, 2017 and completed on March 09, 2017.

2016 - IDNR applied for and received a National Wild Turkey Federation grant for \$18,000.00 to implement undesirable woody species on 200 acres of open woodland communities at Stephen A. Forbes State Park (Figure 25). The contractor - Bundy Tree Farm received the contract for the project, the project was started on January 26, 2016 and completed on March 03, 2016.

4. To monitor both existing nightjar populations at Stephen A. Forbes State Park, the existing MOON routes will be continued to be conducted. Additional stops will be added to the existing MOON route to cover additional parts of Stephen A. Forbes State Park and surrounding areas. Data from the MOON routes will provide documentation of the response of nightjars to habitat enhancement at Stephen A. Forbes State Park.

This objective was completed. An established MOON Route was conducted twice annually from 2016 to 2021 at S.A. Forbes State Park when weather conditions allowed.

2016 - The existing MOON route at Stephen A Forbes State Park was conducted on May 23 2016; nightjars were documented on 6 of the 10 stops with 8 total nightjars heard calling at the stops; this included 7 Chuck-will-widows and one Whip-poor-will (Figure 26). An additional two chuck-will-widows were observed while driving the route but were not recorded at the stops. The second monitoring route was not conducted due to less than ideal weather conditions during the designated time frame.

2017 - The existing MOON route at Stephen A Forbes State Park was conducted on May 08, 2017; nightjars were documented on 7 of the 10 stops with 12 individuals recorded during 2017 (Figure 27). Seven of the ten stops with 12 nightjars recorded, represents the highest number of nightjars ever documented during the previous ten years that this route has been conducted. The MOON route data also indicates that chuck-will-widow numbers are increasing on this route while whip-poor-will numbers are decreasing.

2018 - The existing MOON route at Stephen A Forbes State Park was conducted on April 30, 2018 (Figure 28) and again on May 29, 2018 (Figure 29); combining both surveys, nightjars were

documented on three of the 10 stops with two three individuals recorded during 2018). Three of the ten stops with three nightjars recorded, represents the lowest number of nightjars ever documented during the previous ten years that this route has been conducted. Note: MOON Routes typically are conducted during a full moon with no precipitation, and low wind speed. During 2018, weather conditions prevented having ideal conditions during the monitoring routes time frames.

2019 – The existing MOON route at Stephen A. Forbes State Park was conducted on May 20, 2019 (Figure 30) and again on June 25, 2019 (Figure 31); combining both surveys, nightjars were documented on six of the 10 stops during 2019. Poor weather conditions during late April 2019, prevented having ideal conditions during much of the monitoring route survey period.

2020 – The existing MOON route at Stephen A. Forbes State Park was conducted on May 07, 2020 (Figure 32) and again on June 07, 2020 (Figure 33); combining both surveys, seven individual nightjars were documented on six of the 10 stops during 2020. The second monitoring route was not conducted due to less than ideal weather conditions during the designated time frame.

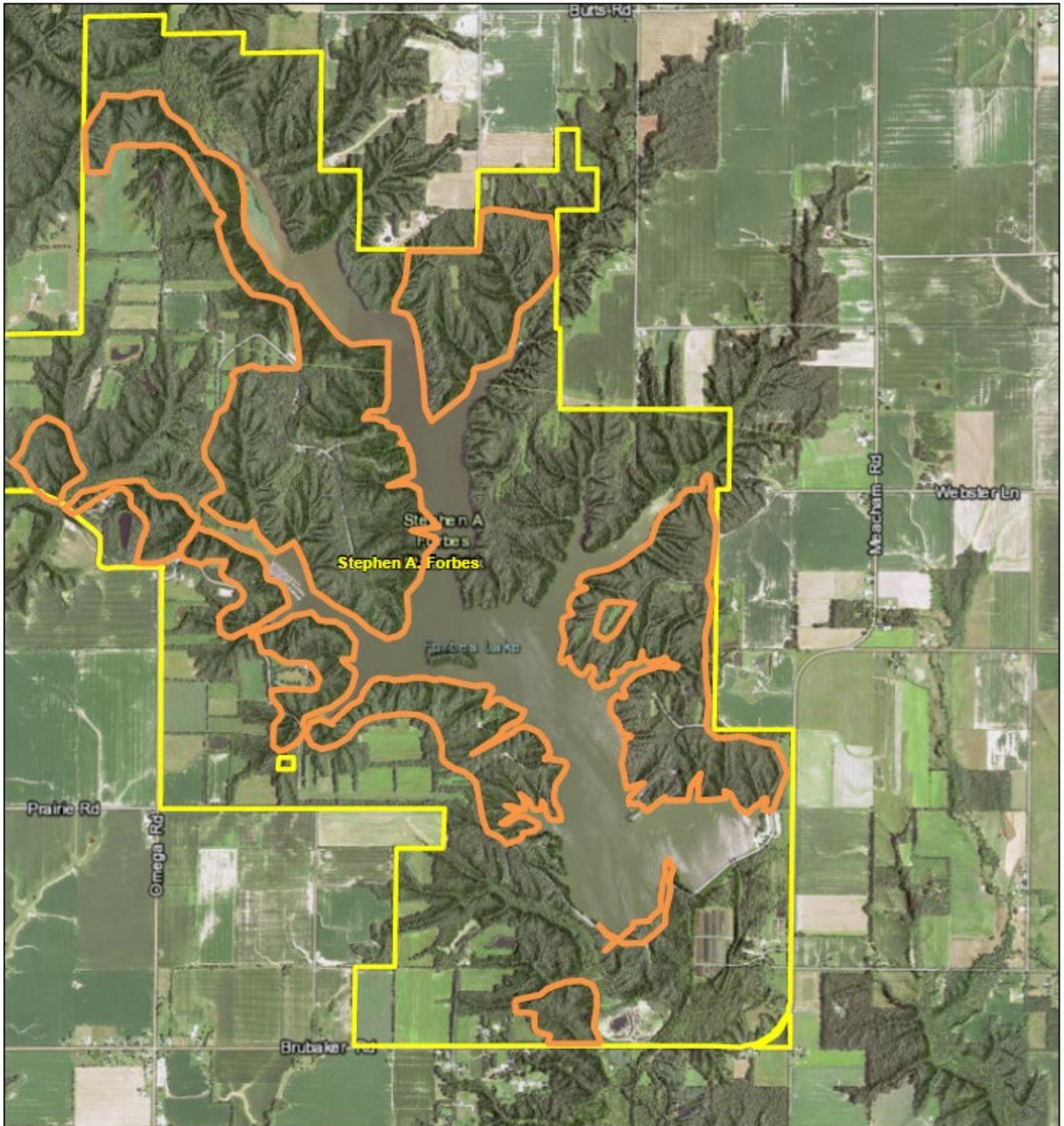
2021 – The existing MOON route at Stephen A. Forbes State Park was conducted on 04.30.2021, only one nightjar was detected on the ten stops during 2021 (Figure 24). Poor weather conditions occurred during the first monitoring period. The second monitoring route was not conducted due to less than ideal weather conditions during the designated time frame.

Principle Investigator:

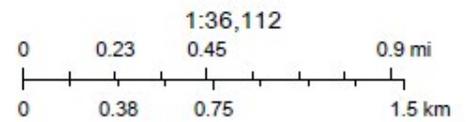
Terry L. Esker, Regional Stewardship Specialist, Illinois Department of Natural Resources, 4295 North 1000th Street, Newton, Illinois 62448. Cell Phone: 618.554.2599 Office Phone: 618-783-2685
e-mail: Terry.Esker@Illinois.gov

Grant Award Number:	F15AF01088	Modification Number:	02
Grant Title/Description:		Habitat Enhancement for Nightjars at Stephen A Forbes State Park, T-100-D-1	
Grant Submission Date:		May 23, 2019	
Recipient DUNS Number:		617554506	
CFDA Number(s):		15.634	
Authorizing Legislation (cfda.gov):		Bipartisan Budget Act of 2018, Pub. L. 115-123, Consolidated Appropriations Act FY 2017 P.L. 114-113, and prior approp. acts; Fish and Wildlife Act, 16 U.S.C. §742 et seq.; and Fish and Wildlife Coordination Act, 16 U.S.C. §§661-666.	
Effective Date:		June 30, 2019	
Start Date:		November 1, 2015	
End Date:		June 30, 2021	

Figure 01. Open Woodland Management Areas Winter 2020-2021 1676 acres



8/30/2021, 10:07:58 AM



Prescribed burns Completed by IDNR Staff – Stephen A. Forbes State Park

Figure 02. 2015 - Stephen A. Forbes State Park 11.09.2015

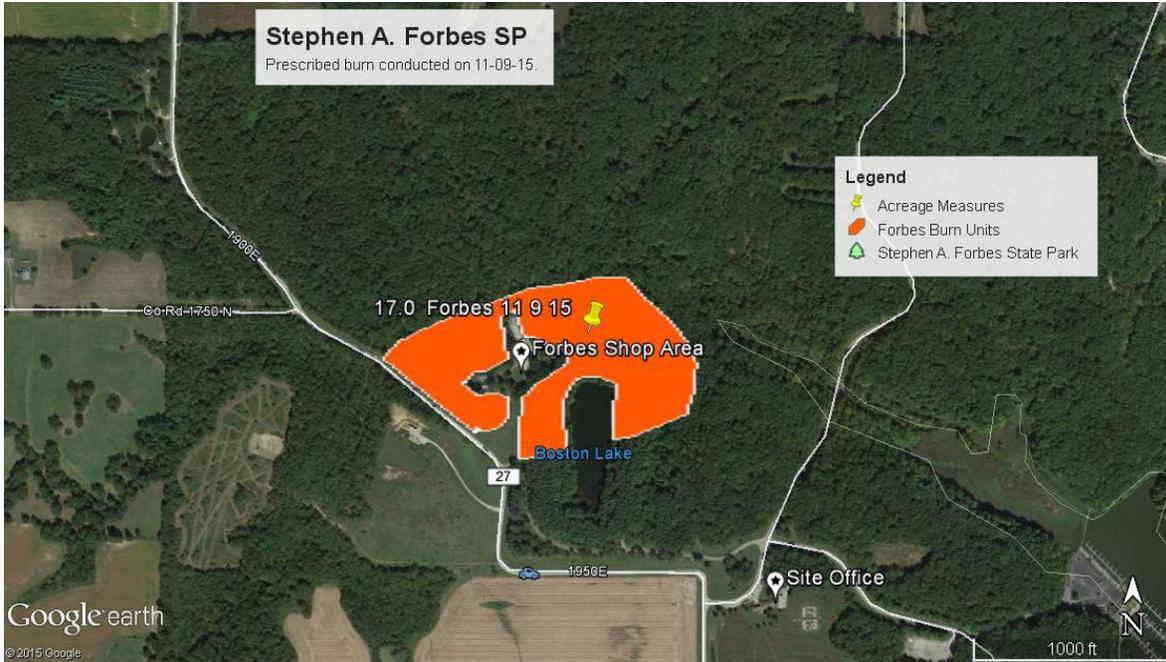


Figure 03. 2016 – Stephen A. Forbes State Park 02.22.2016

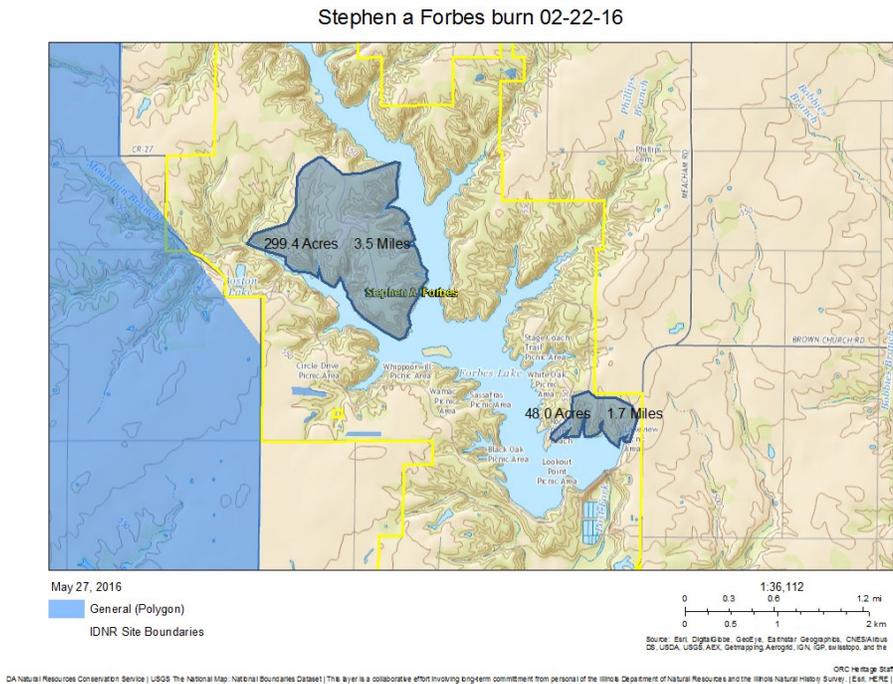
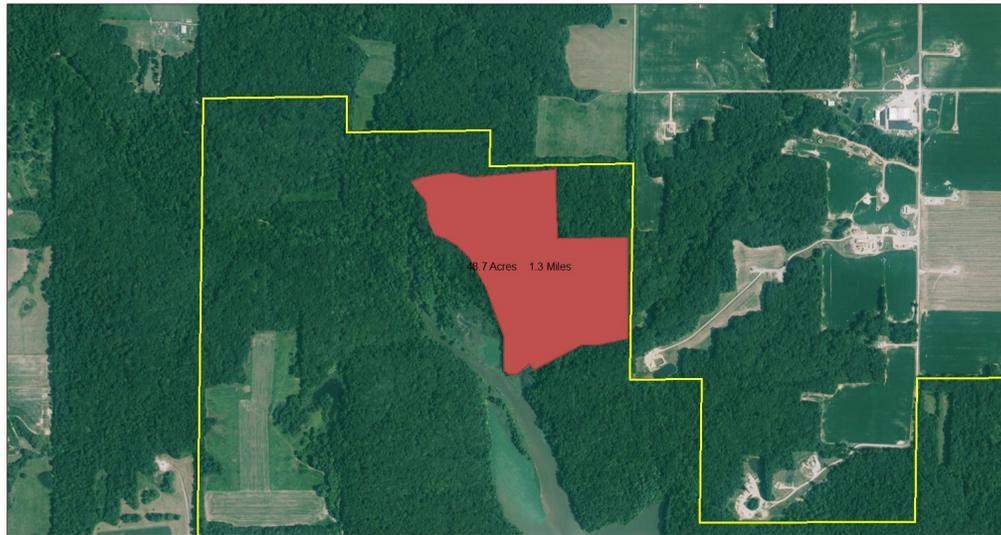
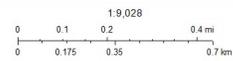


Figure 04. 2016 – Stephen A. Forbes State Park 02.23.2016

Stephen a Forbes burn 02-23-2016



May 27, 2016
IDNR Site Boundaries



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aero, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
USGS The National Map, National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National

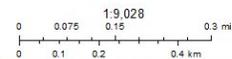
ORC Heritage Staff
USGS The National Map, National Boundaries Dataset | This layer is a collaborative effort involving long-term commitment from personnel of the Illinois Department of Natural Resources and the Illinois Natural History Survey. | Esri, HERE |

Figure 05. 2016 – Stephen A. Forbes State Park 08.24.2016

SA Forbes - prescribed burn 08-24-2016 (2 burn units) 4.0 acres total



August 25, 2016
Completed Prescribed Burns
IDNR Site Boundaries



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, Aero, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the

ORC Heritage Staff
USGS The National Map, National Boundaries Dataset | This layer is a collaborative effort involving long-term commitment from personnel of the Illinois Department of Natural Resources and the Illinois Natural History Survey. | County of Peoria, Esri, HERE |

Figure 06. 2016 – Stephen A. Forbes State Park 08.25.2016

SA Forbes State Park - Marion County - prescribed burns (2 burns) 08-25-2016 7.66 acres total



Figure 07. 2016 – Stephen A. Forbes State Park 09.13.2016

SA Forbes State Park - W76D Road Prairie - growing season burn 09-13-2016

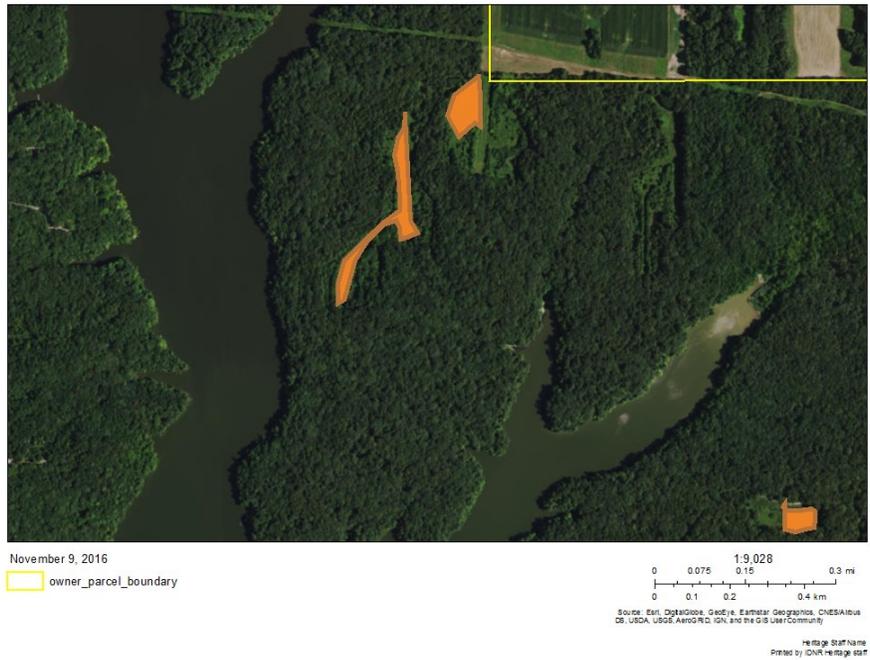


Figure 08. 2016 – Stephen A. Forbes State Park 09.13.2016



Figure 09. 2016 – Stephen A. Forbes State Park 11.21.2016

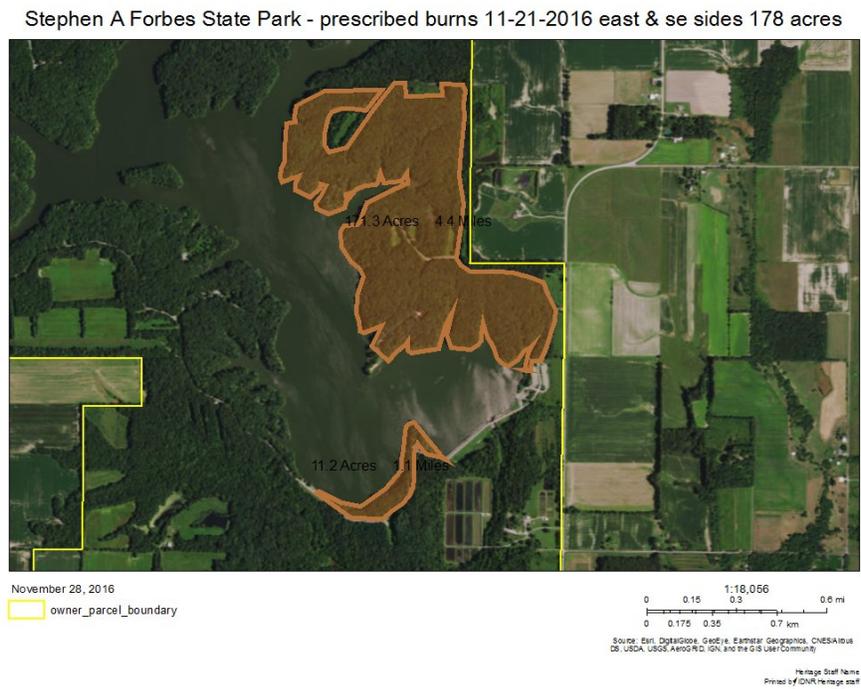


Figure 10. 2017 – Stephen A. Forbes State Park 02.15.2017



Figure 11. 2017 – Stephen A. Forbes State Park 02.16.2017

Prescribed burn - SA Forbes State Park 02-16-2017 barren, campground point & circle drive 550 acres

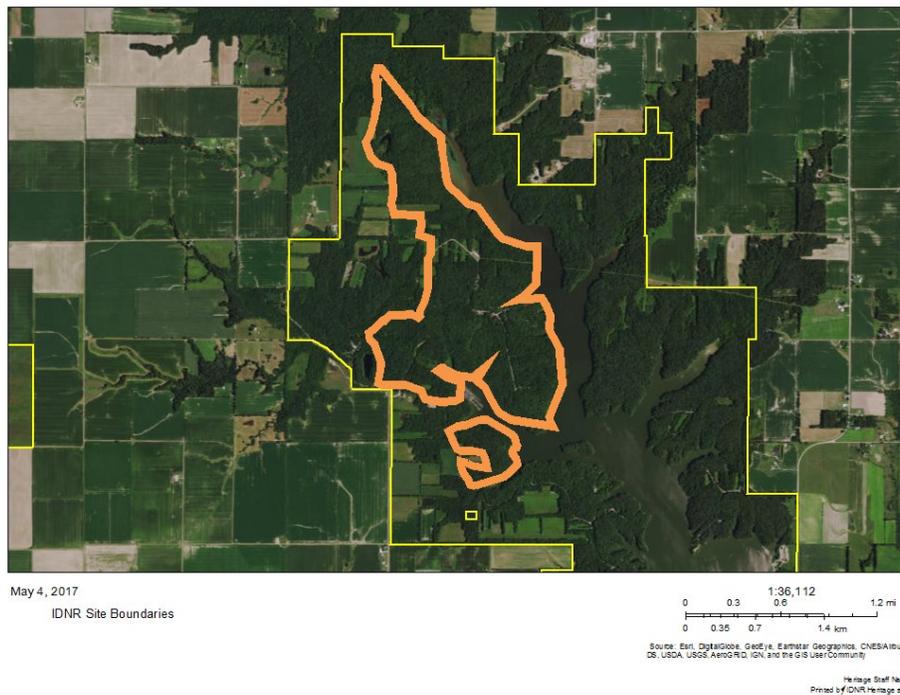


Figure 12. 2017 – Stephen A. Forbes State Park 08.14.2017

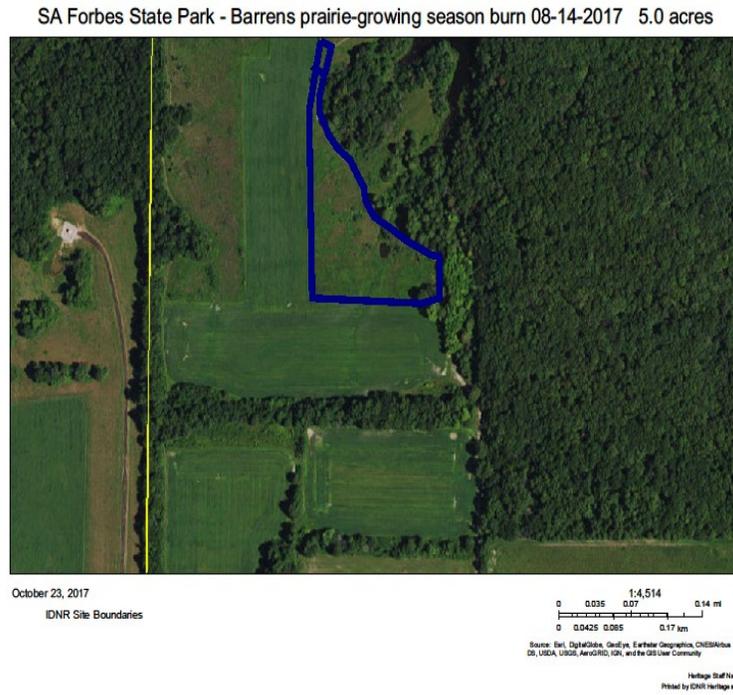


Figure 13. 2017 - Stephen A. Forbes State Park 08.14.2017

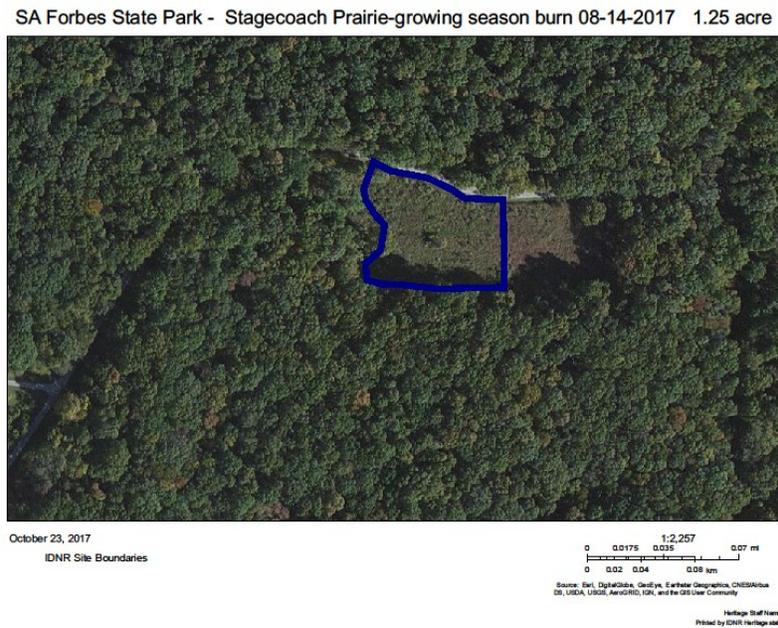


Figure 14. 2017 – Stephen A. Forbes State Park 10.02.2017

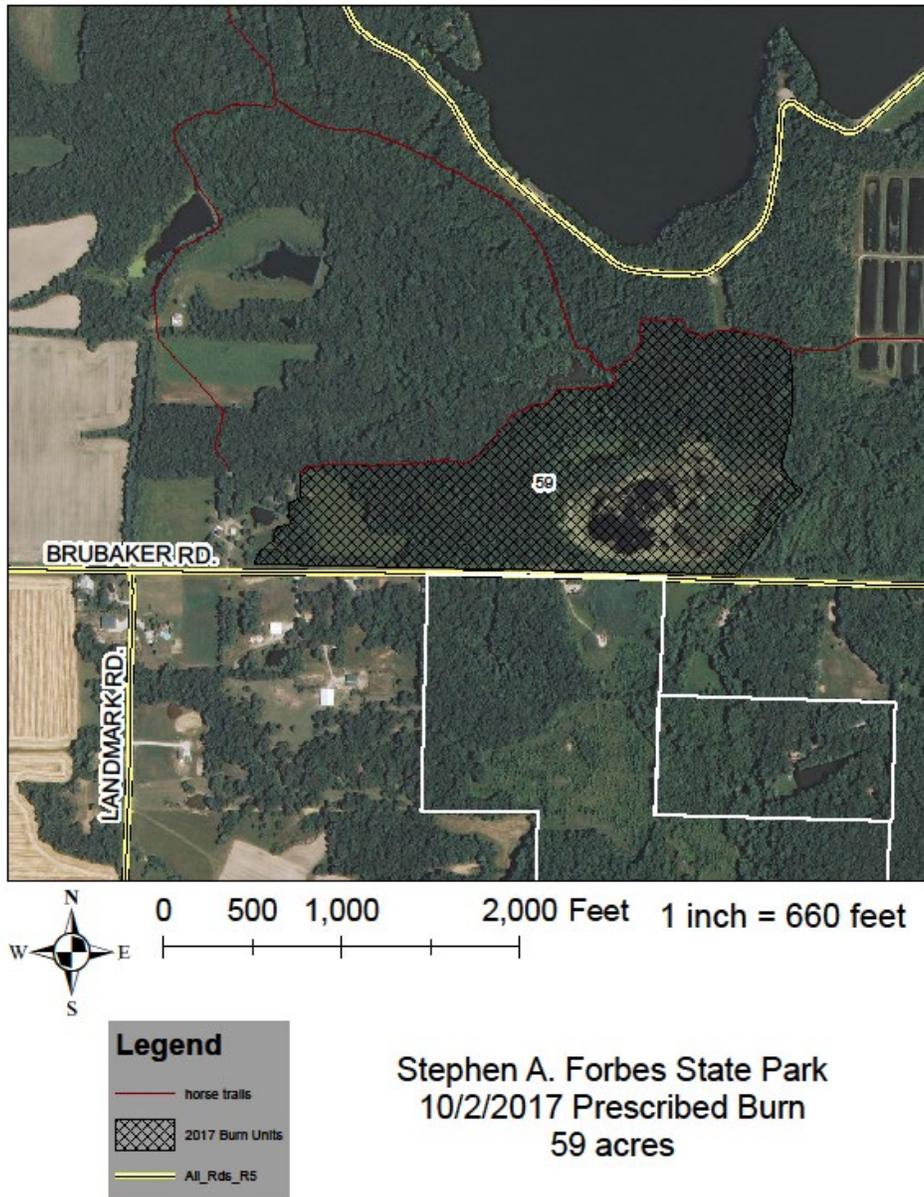
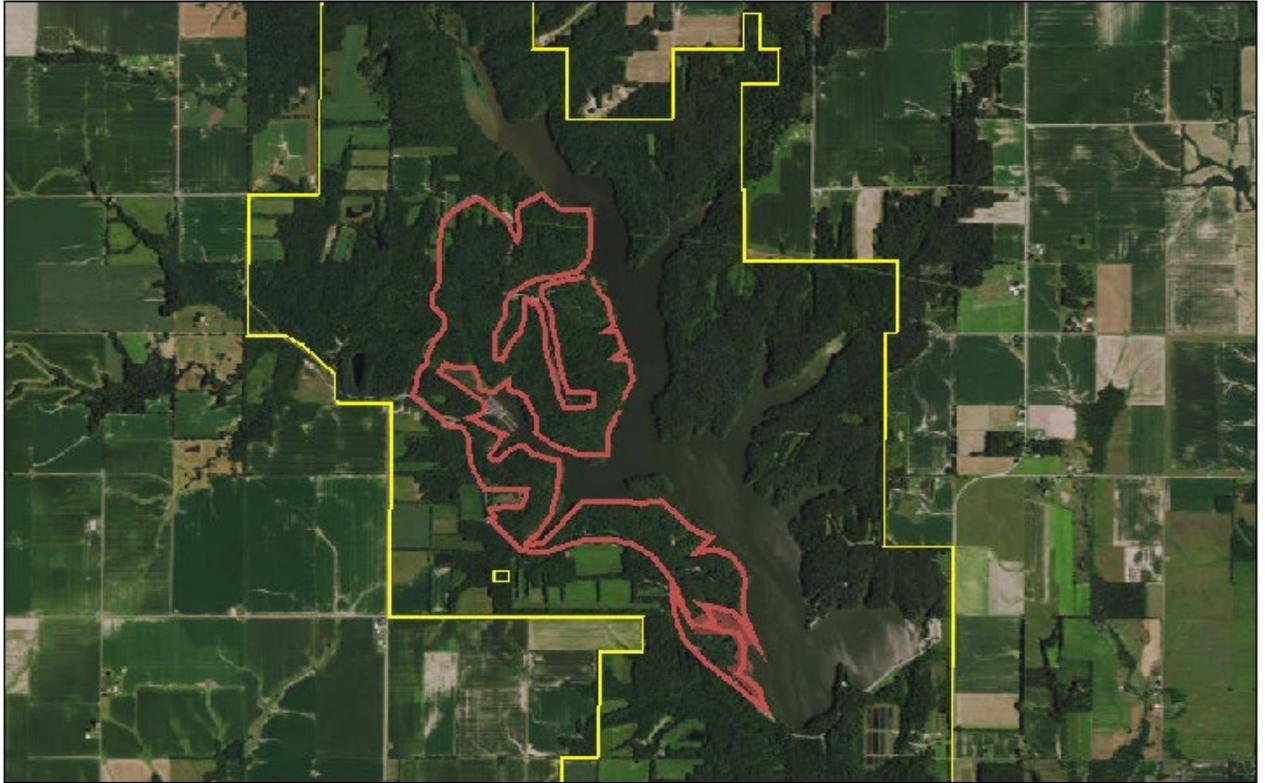


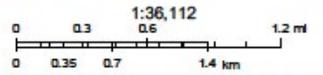
Figure 15. 2017 – Stephen A. Forbes State Park 12.11.2017

Prescribed burn - SA Forbes State Park 12-11-2017 422 acres



1 / 2 / 2018 11 : 52 : 59 AM

IDNR Site Boundaries



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Heritage Staff Name
Printed by IDNR Heritage staff

Figure 16. 2018 – Stephen A. Forbes State Park 03.19.2018

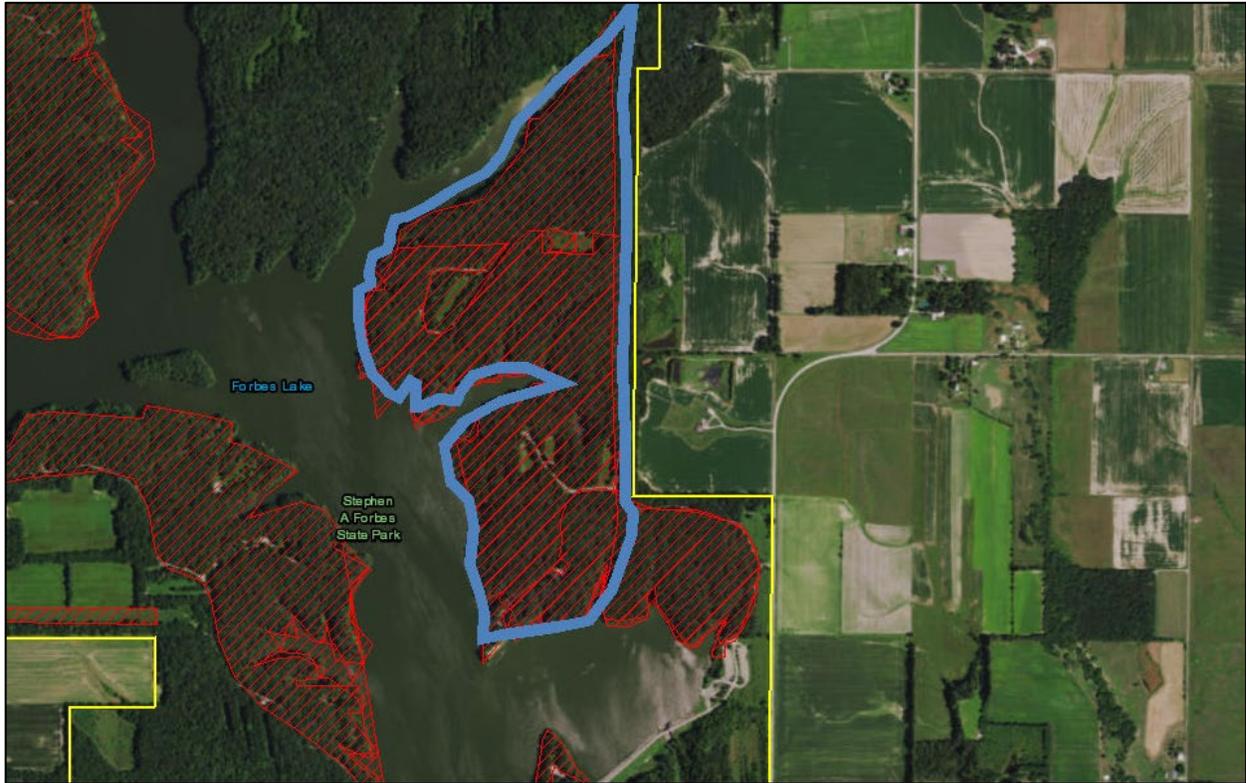
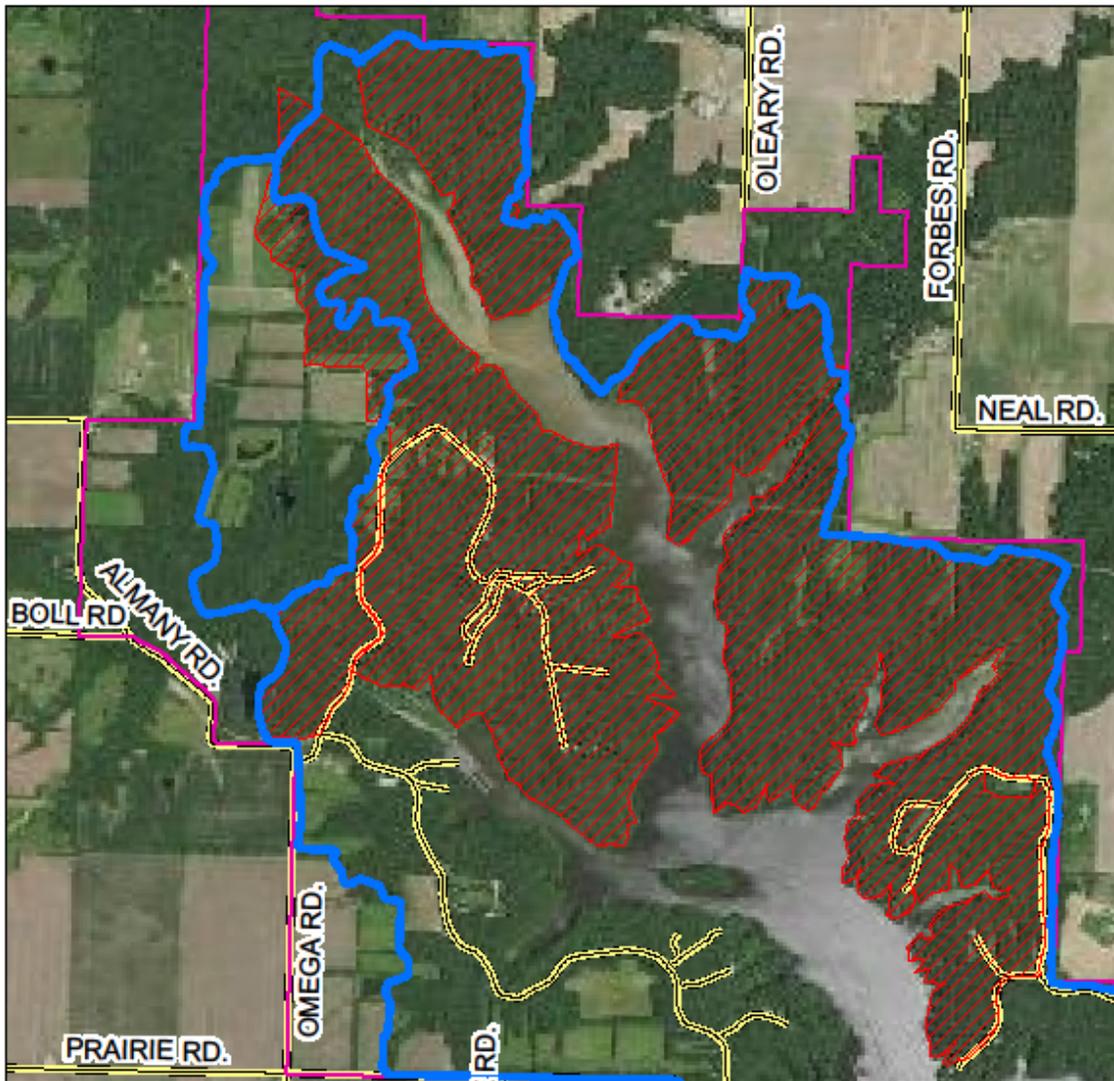


Figure 17. 2019 – Stephen A. Forbes State Park 03.18.2019

Stephen A. Forbes
3/18/2019 prescribed burn
1094 acres



Legend

- horse trails
- Date
- 3/18/2019
- State_land



1 inch = 1,708 feet

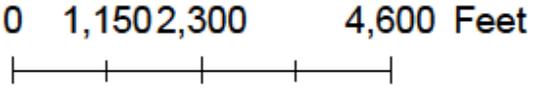


Figure 18. 2019 – Stephen A. Forbes State Park 09.05.2019



Figure 19. 2019 – Stephen A. Forbes State Park 09.05.2019

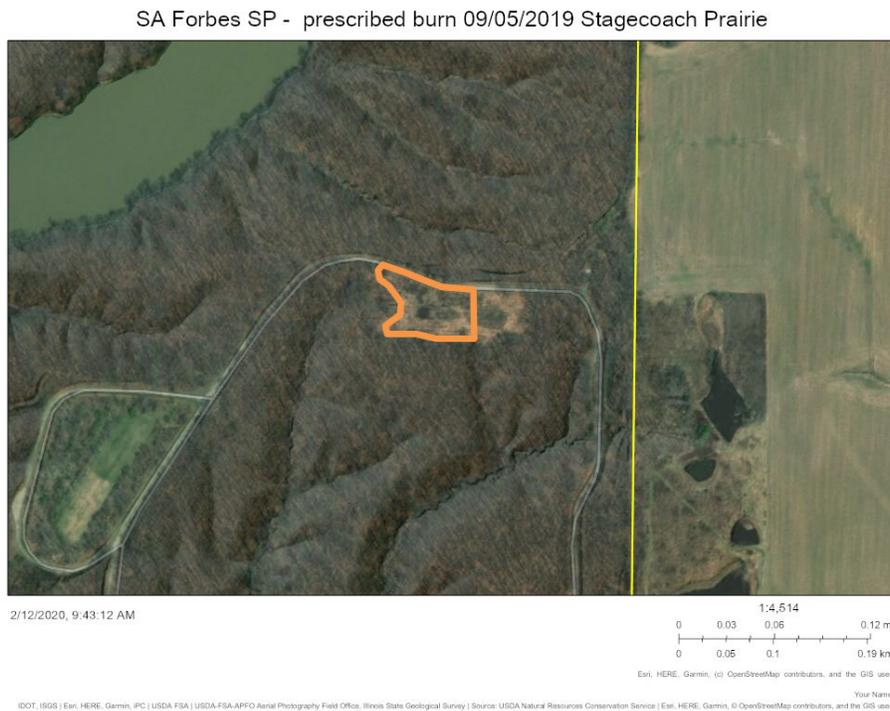


Figure 20. 2020 – Stephen A. Forbes State Park 03-07-2020 and 03-08-2020

2020 Prescribed Burns
Forbes Lake State Park

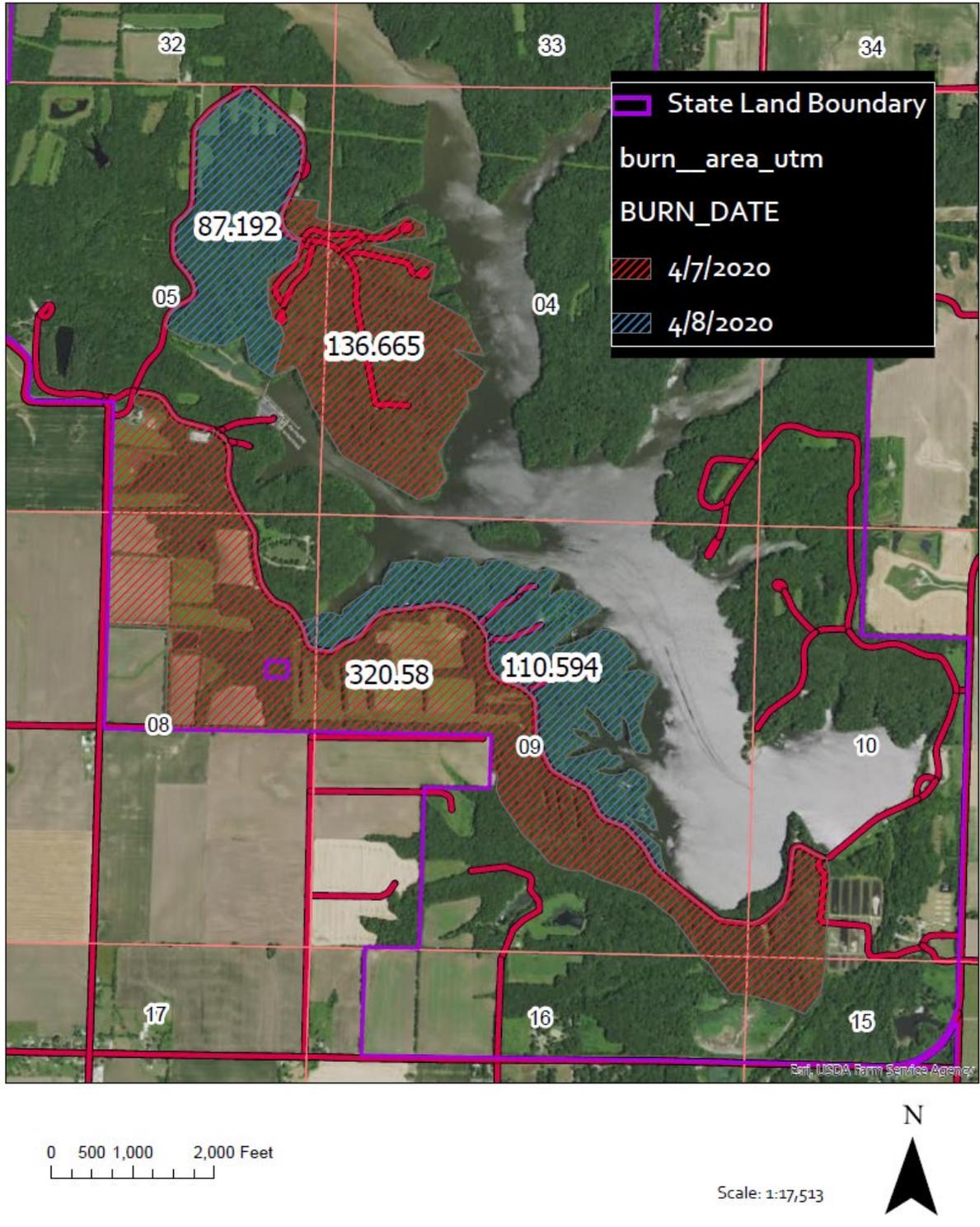
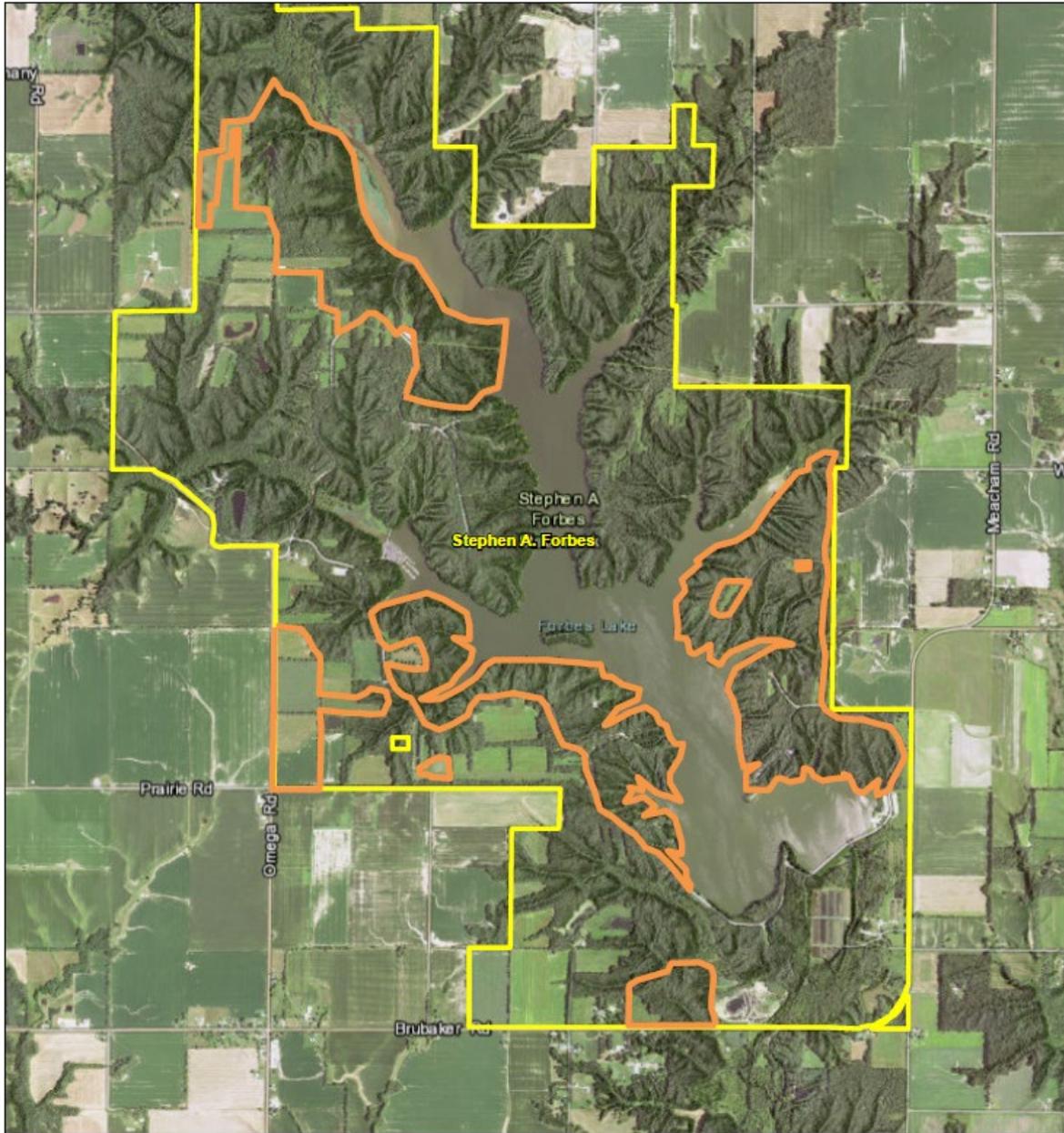
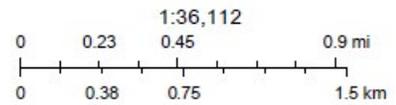


Figure 21. 2021 – Stephen A. Forbes State Park 03.22.2021, 03.24.2021

SA Forbes State Park prescribed burns Winter 2020/2021

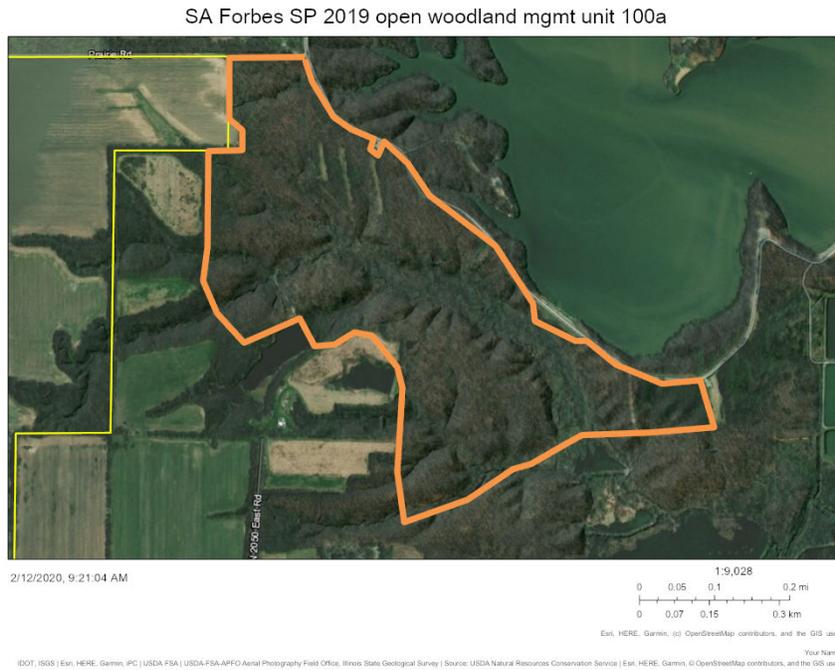


8/30/2021, 9:26:51 AM



Objective 3 - Open Woodland Management Projects

**Figure 22 – 2019 - SA Forbes State Park IDNR Habitat Stamp Fund
Open Woodland Project (100 acres)**

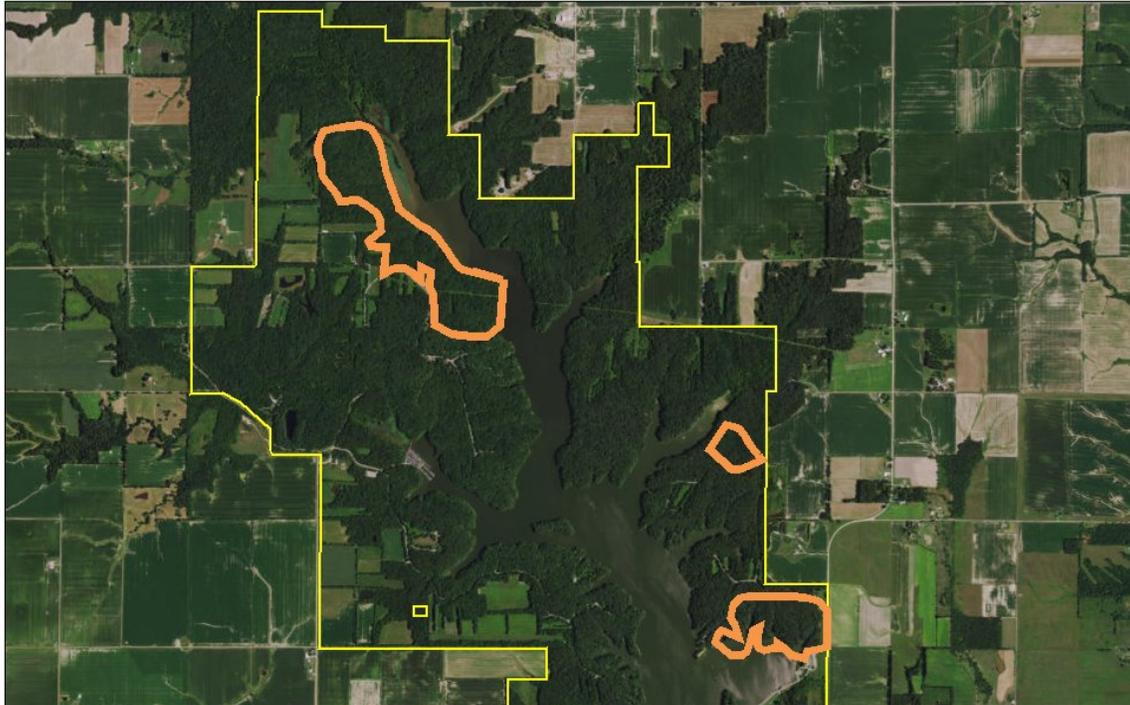


**Figure 23. 2018 - Stephen A. Forbes State Park - NWTF funds
- Open Woodland Project (50 acres)**



**Figure 24. 2017 - Stephen A. Forbes State Park - NWTf funds
- Open Woodland Project (167 acres)**

Timber Stand Improvement site - SA Forbes State Park Jan-March 2017

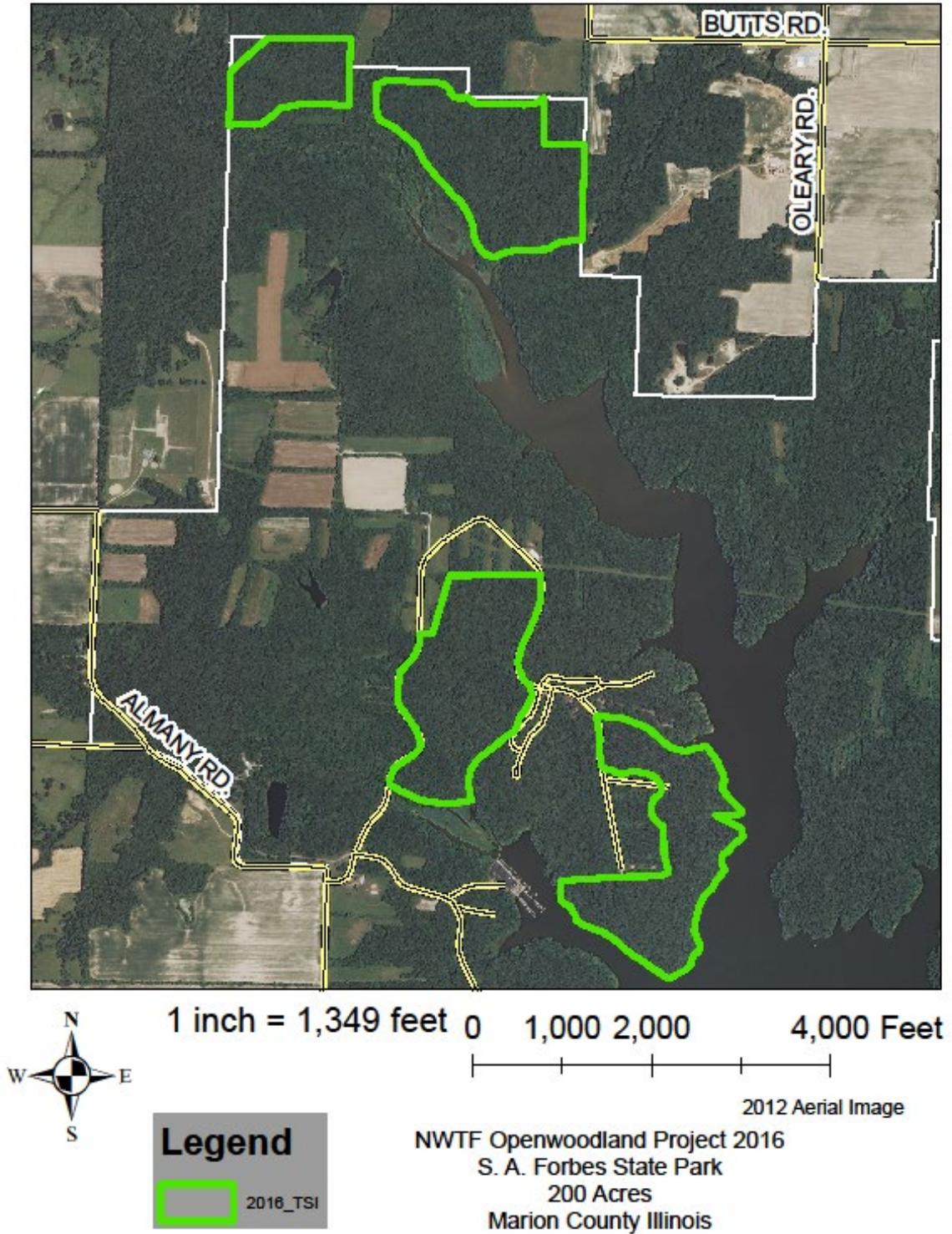


May 5, 2017
IDNR Site Boundaries

1:36,112
0 0.3 0.6 1.2 mi
0 0.35 0.7 1.4 km
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS UserCommunity

Heritage Staff Name
Printed by IDNR Heritage staff

Figure 25. 2016 - Stephen A. Forbes State Park
– NWTF Funds Open Woodland Project (200 acres)



Objective 4 – Monitoring MOON Route Survey Data Sheets

Figure 26 - Nightjar Survey Route 05.23.2016 - SA Forbes State Park

should have started a little earlier got light & noisy

2016 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: L. Harrison			County: Madison			Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Date: May 23 2016			Route Name & Number: Parber S.P.										
Street Address: 934 W. Bryant						City, State, Zip Code: Olney, IL 62450							
Start time: 4:42		End time: 5:05		Monitor in 2017: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		Observer email: lharrison3@gmail.com							
Survey conditions at each stop: (fill below)				Estimated Temp: 54°F				Wind Codes	Sky Codes	Noise Codes			
Stop#:	1	2	3	4	5	6	7	8	9	10	0 = none	0 = clear	0 = none
Wind	0	0	0	0	0	0	0	0	0	0	1 = slight	1 = mostly clear	1 = slight
Sky	0	0	0	0	0	0	0	0	0	0	2 = moderate	2 = mostly cloudy	2 = medium
Noise	0	0	0	0	0	0	0	0	0	0	3 = strong	3 = overcast	3 = excessive
Mile	0.0	1.0	1.9	3.0	4.0	5.0	6.1	7.0	7.9	9.0	Used Playback (Circle) EASO: Yes/No BAOW: Yes/No		

		Time Blocks (Minutes of Survey)									
Stop #/time	Species	Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10
1	4:42 Whip	✓	✓	✓	✓	✓	✓				
2	4:51 CWNI	✓	✓	✓	✓	✓	✓				
	CONS				✓						
3	4:58 CWNI	✓	✓	✓	✓	✓	✓				
	CWNI	✓	✓	✓	✓	✓	✓				
	CWNI	✓	✓	✓	✓	✓	✓				
4	5:07 CWNI	✓	✓	✓	✓	✓	✓				
	BDOW		✓								
	CWNI		✓	✓	✓	✓	✓				
5	5:14 BDOW	✓									
6	5:21 CONI	✓									
	BDOW		✓								
7	5:27										
8	5:35										
9	5:42 CWNI	✓	✓								
10	5:49										

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

Kicked 1 CWNI ~~at~~ Rono between 2-3 stops
 heard 1 CWNI ♀ between 3-4

Figure 27 - Nightjar Survey Route 05.08.2017 - SA Forbes State Park

2017 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: <u>L. Harrison</u>		County: <u>MARION</u>	Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date: <u>5-8-17</u>		Route Name & Number: <u>Forkes St.</u>	
Street Address: <u>934 W. Bryant St.</u>			City, State, Zip Code: <u>Olney Ill 62450</u>
Start time: <u>2:08^{AM}</u>	End time: <u>3:41^{AM}</u>	Monitor in 2018: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Observer email: <u>lerry.harrison@jmi.com</u>

Survey conditions at each stop: (fill below)											Estimated Temp:			Wind Codes	Sky Codes	Noise Codes
Stop#:	1	2	3	4	5	6	7	8	9	10				0 = none	0 = clear	0 = none
Wind	0	0	0	0	0	0	0	0	1	1				1 = slight	1 = mostly clear	1 = slight
Sky	0	0	0	0	0	0	0	0	0	0				2 = moderate	2 = mostly cloudy	2 = medium
Noise	0	0	0	0	0	0	0	0	0	0				3 = strong	3 = overcast	3 = excessive
Mile	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0				Used Playback (Circle) EASO: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> BAOW: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Stop #	Time	Species	Time Blocks (Minutes of Survey)													
			Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10				
1	2:08	CW ^I	✓								✓					
1		Bow	✓													
1		Bow	✓	✓												
2	2:21	—														
3	2:29	CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		Bow	✓	✓												
		Bow	✓	✓												
4	2:46	CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		Bow	✓		✓					✓						
5		Bow	✓	✓	✓	✓	✓	✓	✓	✓						
		Bow					✓	✓	✓	✓						
6	3:00	CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		Bow		✓	✓				✓	✓						
7	3:09	CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						
		CW ^I	✓	✓	✓	✓	✓	✓	✓	✓						

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

Figure 29 - Nightjar Survey Route 05.29.2018 - SA Forbes State Park

2018 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: <u>Leroy Harrison</u>		County: <u>MARION</u>	Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										
Date: <u>5-29-18</u>			Route Name & Number: <u>Forbes S.P.</u>										
Street Address: <u>934 W. Bryant</u>			City, State, Zip Code: <u>Olney 62450</u>										
Start time:	End time:	Monitor in 2019: <u>yes/no</u>	Observer email: <u>leroyharrison3@gmail.com</u>										
Survey conditions at each stop: (fill below)		Estimated Temp: <u>70°</u>	Wind Codes	Sky Codes	Noise Codes								
Stop#:	1	2	3	4	5	6	7	8	9	10	0 = none	0 = clear	0 = none
Wind	0	0	0	0	0	0	0	0	0	0	1 = slight	1 = mostly clear	1 = slight
Sky	2	2	2	2	2	2	2	2	2	2	2 = moderate	2 = mostly cloudy	2 = medium
Noise	0	0	0	0	0	0	0	0	0	0	3 = strong	3 = overcast	3 = excessive
Mile	0.0	1.0									Used Playback (Circle) EASO: Yes/No BAOW: Yes/No		

Stop #	Time	Species	Time Blocks (Minutes of Survey)										
			Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10	
1	3:59												
2	3:47	BDW							✓				
3	3:54	CAWJ	✓	✓	✓	✓	✓	✓	✓				
4	4:02												
5	4:10												
6	4:17	BDW								✓			
7	4:24												
8	4:30	CAWJ					✓	✓	✓				
9	4:37	BDW	✓	✓									
10	4:47												

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

Figure 30 - Nightjar Survey Route 05.20.2019 - SA Forbes State Park

2019 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: <i>L. Harrison</i>		County: <i>Macon</i>		Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
Date: <i>5-20-19</i>			Route Name & Number: <i>Forbes S.P.</i>												
Street Address: <i>934 W Bryant</i>				City, State, Zip Code: <i>Olney Ill 62450</i>											
Start time: <i>3:33 AM</i>		End time: <i>4:52 AM</i>		Monitor in 2020: <input checked="" type="radio"/> yes <input type="radio"/> no											
Observer email: <i>leeroy.harrison@illinois.gov</i>		Survey conditions at each stop: (fill below) <i>clear</i>		Estimated Temp: <i>55°F - 52°F</i>											
Stop#:	1	2	3	4	5	6	7	8	9	10	Wind Codes	Sky Codes	Noise Codes		
Wind	0										0 = none	0 = clear	0 = none		
Sky	0										1 = slight	1 = mostly clear	1 = slight		
Noise	0										2 = moderate	2 = mostly cloudy	2 = medium		
Mile	0.0										3 = strong	3 = overcast	3 = excessive		
Used Playback (Circle)												EASO: Yes/No		BAOW: Yes/No	

Stop #	Time	Species	Time Blocks (Minutes of Survey)										
			Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10	
1	3:33												
2	3:42												
3	3:50	CWWT						X	X				
4	3:58	BDOU			X								
		CWWT						X	X				
5	4:07	BDOU		X					X				
6	4:15	CWWT	X	X	X	X	X	X					
7	4:23	CWWT	X	X	X	X	X	X	X				
8	4:30	CWWT	X	X	X	X	X	X					
9	4:38	BDOU	X	X	X			X					
		CWWT			X	X							
10	4:46												

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

Figure 32 - Nightjar Survey Route 05.01.2020 - SA Forbes State Park

2020 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: <u>Lenny Harrison</u>				County: <u>MARION</u>				Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Date: <u>5-7-20</u>				Route Name & Number: <u>Forbes S.P.</u>									
Street Address: <u>934 W. Boyard</u>						City, State, Zip Code: <u>Olney III 62450</u>							
Start time: <u>2:24</u>		End time: <u>3:40</u>		Monitor in 2021: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Observer email: <u>lenny.harrison3@gmail.com</u>					
Survey conditions at each stop: (fill below)				Estimated Temp: <u>48</u>				Wind Codes		Sky Codes		Noise Codes	
Stop#:	1	2	3	4	5	6	7	8	9	10	0 = none	0 = clear	0 = none
Wind	<u>1</u>										1 = slight	1 = mostly clear	1 = slight
Sky	<u>1</u>										2 = moderate	2 = mostly cloudy	2 = medium
Noise	<u>0</u>										3 = strong	3 = overcast	3 = excessive
Mile	<u>0.0</u>										Used Playback (Circle) EASO: Yes/No BAOW: Yes/No		

Stop #	Time	Species	Time Blocks (Minutes of Survey)									
			Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10
1	2:24	BDOW					✓	✓				
2	2:33	BDOW	✓	✓	✓							
		CWWT			✓	✓	✓					
3	2:41	CWWT	✓	✓	✓	✓	✓	✓				
		BDOW		✓		✓						
4	2:50	CWWT	✓	✓	✓	✓	✓	✓				
		BDOW		✓			✓					
5	2:58	—										
6	3:06	—										
7	3:13											
8	3:20	CWWT		✓	✓	✓	✓	✓				
		CWWT			✓	✓	✓	✓				
9	3:27	CWWT				✓	✓					
		BDOW		✓								
10	3:34	—										

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

1 CWWT before 8:49 AM

Figure 33 - Nightjar Survey Route 06.07.2020 - SA Forbes State Park

2020 Owl and Nightjar Survey Data Sheet

CONTINUED ON BACK OF FORM

Observer Name: <u>LEROY HARRISON</u>		County: <u>MARION</u>	Moon above horizon: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date: <u>06/07/2020</u>		Route Name & Number: <u>FORBES SP</u>	
Street Address: <u>934 W BRYANT</u>		City, State, Zip Code: <u>OLNEY, IL 62022</u>	
Start time:	End time:	Monitor in 2021: yes/no	Observer email: <u>LEROYHARRISON3@gmail.com</u>

Survey conditions at each stop: (fill below)	Estimated Temp:										Wind Codes	Sky Codes	Noise Codes	
	Stop#	1	2	3	4	5	6	7	8	9	10	0 = none 1 = slight 2 = moderate 3 = strong	0 = clear 1 = mostly clear 2 = mostly cloudy 3 = overcast	0 = none 1 = slight 2 = medium 3 = excessive
Wind	<u>0</u>													
Sky	<u>1</u>													
Noise	<u>0</u>													
Mile	<u>0.8</u>													

Used Playback (Circle)
EASO: Yes BAOW: Yes

Time Blocks (Minutes of Survey)												
Stop #	Time	Species	Min 1	Min 2	Min 3	Min 4	Min 5	Min 6	Min 7	Min 8	Min 9	Min 10
1	3:06	-										
2	3:14	-										
3	3:20	-										
4	3:29	-										
5	3:36	-										
6	3:43	-										
7	3:50	<u>CUWI</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
8	3:57	<u>CUWI</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>					
9	4:03	<u>CUWI</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
10	4:10	-										

Mail this form to: Tara Beveroth, Illinois Natural History Survey, 1816 S. Oak St., Champaign, IL 61820

