Terrestrial Species Lentic Conversion Areas Overview Map

Pensacola Dam

GRAND RIVER DAM AUTHORITY

September 2022

Overview Map Legend

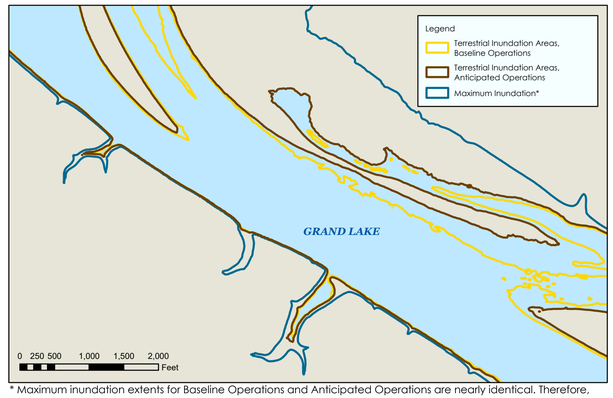
- 1:24,000-scale Map Sheet
- State Boundary
- County Boundary
- Municipality
- Unincorporated

Road Class

- Interstate
- US Highway

Lentic Areas Mapping Explanation

Mapping shows the extent of inundation calculated using the H&H Study Operations Model and Upstream Hydraulic Model. Estimated inundation extent for normal (median) inflows and operations during the entire active and hibernation seasons.



* Maximum inundation extents for Baseline Operations and Anticipated Operations are nearly identical. Therefore, the Maximum inundation extent shown represents both conditions. Maximum inundation extent occurs when USACE is in flood control.

Disclaimer: These maps represent the work of the H&H Study and are not to be used as shown for resource analysis purposes.

0 1.25 2.5 5 7.5 10 Miles

NORTH

Map Notes

Data Sources for Maps:

1. Base map images from https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019
2. Transportation network (major roads, local roads, and railroads) and county boundaries obtained from the Oklahoma Office of Geographic Information (http://okmaps.org/ogi/search.aspx).

Map Source: Missouri Dept. of Conservation, Missouri DNR, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, Esri, NASA, NGA, USGS

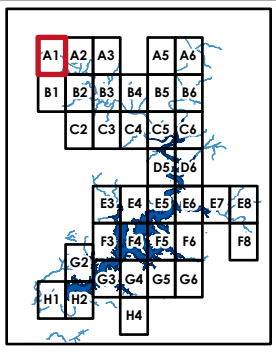
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

1. Mapping shows the extent of inundation calculated using the H&H Study Operations Model and Upstream Hydraulic Model. **These maps represent the work of the H&H Study and are not to be used as shown for resource analysis purposes.**
2. Estimated inundation extent for normal (median) inflows and operations during the entire active and hibernation seasons.
3. See Overview Map for an explanation of the maximum inundation extent and notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: A1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

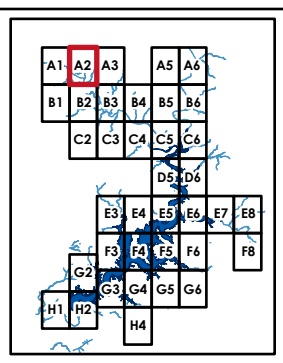
TREECE RD
E0300
Squaw Creek
Neosho River
Squaw Creek
Fourmile Creek
E 40 RD
Neosho River
Neosho River
Neosho River
E0500
Mud Creek
A1
A3
B1
B2
B3
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: A2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

TREECE RD

A2

A4

B2 B3 B4

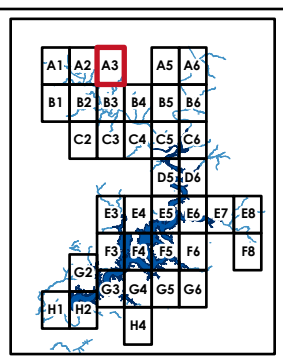
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: A3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

E 10 RD

BNSF RR

BNSF RR

69A

CHERRY ST
ELM ST
QUAPAW ST
KENTUCKY ST
VIRGINIA ST
WHITEBIRD

E 50 RD

E 57 RD

137

A4

A6

B4

B5

B6

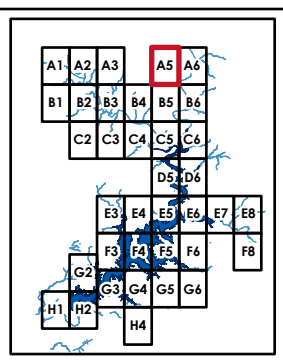
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: A5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A5

E 10 RD

69A

S 630 RD

E 50 RD

Spring River

COMM MAP

E 57 RD

44

B5

B6

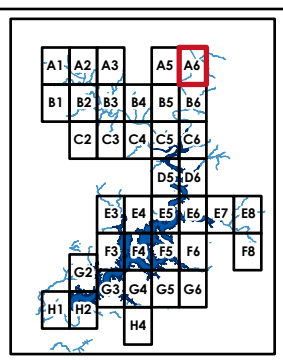
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: A6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A1 A2

Mud Creek

59

UP RR

FIRST

3RD

COMMERCE

SPRINGFIELD

JEFFERSON

CURTIS

10

2

59

Cow Creek

B2

C1 C2

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

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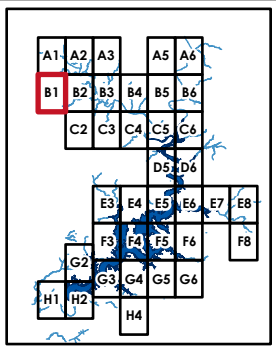

Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A1 A2 A3

B1 B3

C1 C2 C3

Mud Creek

Neosho River

Neosho River

Neosho River

E00500

Cow Creek

59

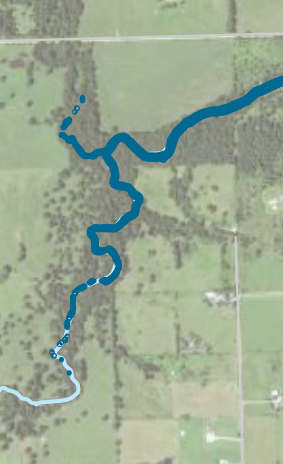
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A2 A3 A4

B2 B4

C2 C3 C4

Neosho River
NEWMAN
VETERANS BLVD
GOODRICH
11 AVE NW
10 AVE NW
BJ TUNELL BLVD
7 AVE NW
Cow Creek
Windy Creek
OLD HWY 59/10
Coal Creek
59
69
BNSF RR

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet

Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A3 A4 A5

B3 B5

C3 C4 C5

N VINE ST
N RIVER ST
COMMERCE ST
B ST
C ST
NEWMAN
OAK ST
69
NEBRASKA ST
OLIVE ST
PINE ST
BNSF RR
G ST NW
26 AVE NW
SCOTT LN
OAK LN
69A
580 RD
BIRNAMWOOD DR
VETERANS BLVD
E ST
18TH AVE
A ST
16TH AVE
MCKINLEY BLVD
GOODRICH
11 AVE NW
10 AVE NW
BJ TUNELL BLVD
1ST NW
02U BJ TUNNEL BLVD
Tar Creek
44
3 AVE
2 AVE NW
1 AVE NW
MAIN ST
2 AVE NE
PARK CIR
E CENTRAL AVE
Neosho River
2 AVE SE
3RD AVE SE
10
Little Elm Creek
B ST NE
6 AVE SE
125
21U H ST

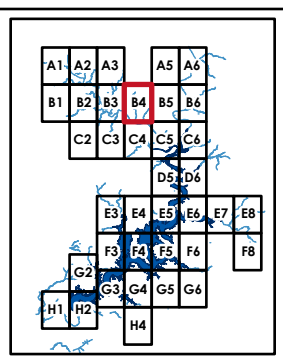
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION
- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

1. Mapping shows the extent of inundation calculated using the H&H Study Operations Model and Upstream Hydraulic Model. **These maps represent the work of the H&H Study and are not to be used as shown for resource analysis purposes.**
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A4 A5 A6

B4 B6

C4 C5 C6

44

137

10

137

Spring River

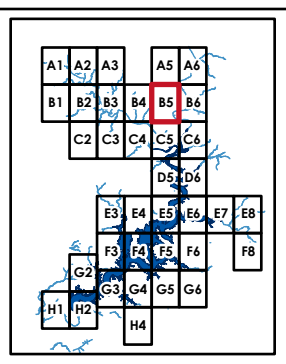
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
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MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A5 A6

B5

C5 C6

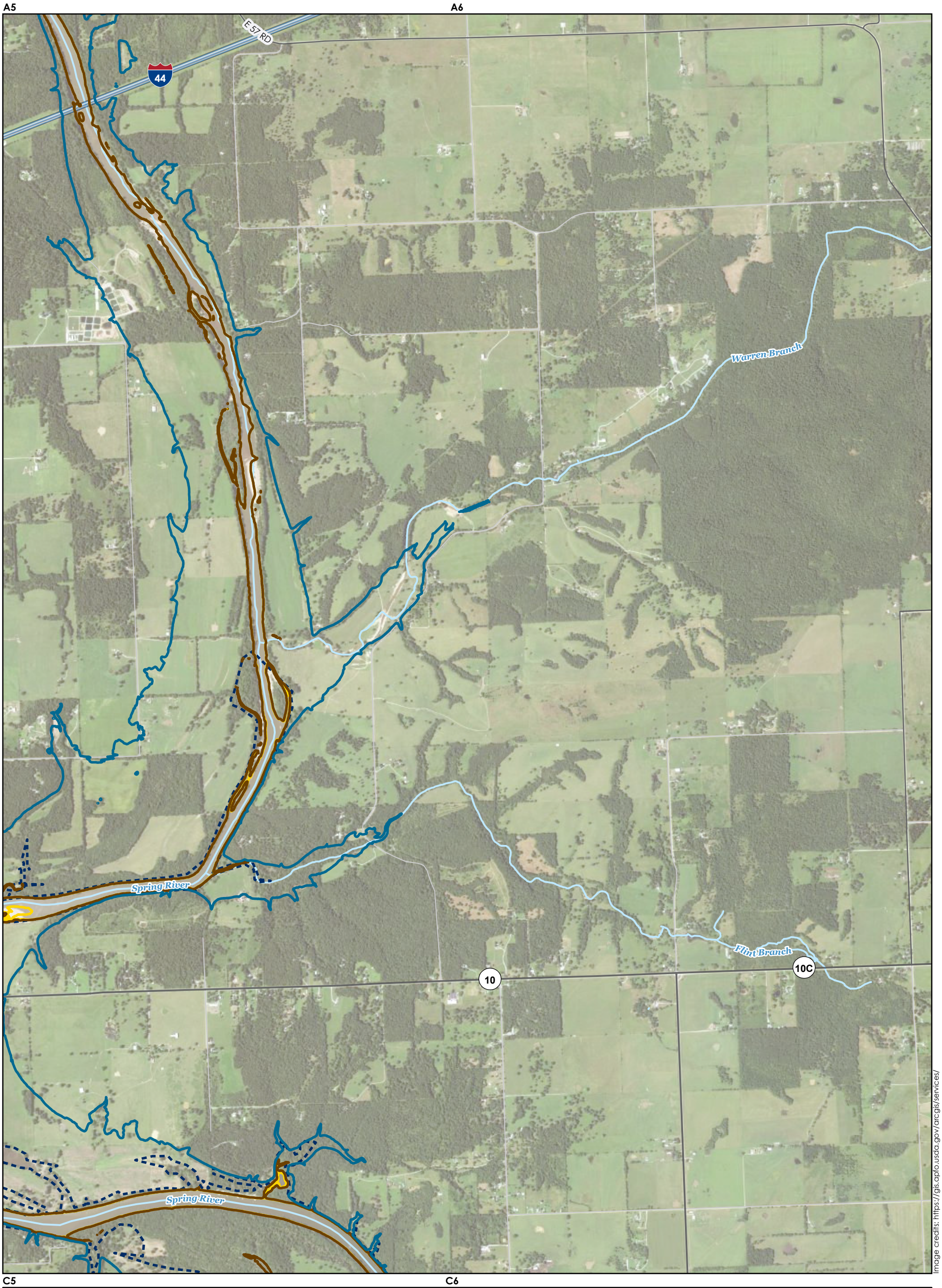


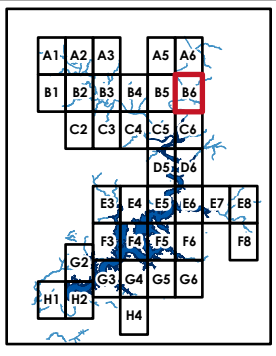
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
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- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

B1 B2 B3

C1 C3

25

D1 D2 D3

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

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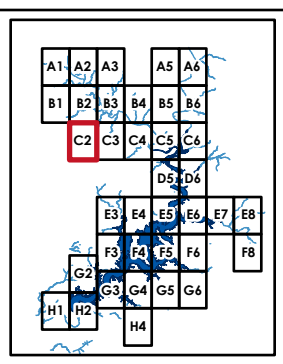

Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

B2 B3 B4

C2 C4

D2 D3 D4

Windy Creek

Coal Creek

S 520 RD

P ST SW

BNSF RR

59

25

E150 RD

BNSF RR

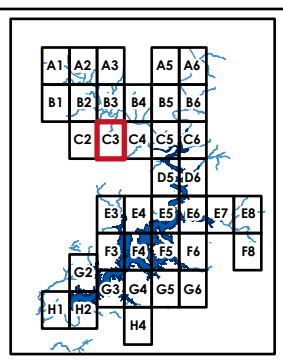
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

B3 B4 B5

C3 C5

D3 D4 D5

Tar Creek
Little Elm Creek
Neosho River
K ST SW
SH125 E ST
M ST SW
SUNSET STRIP
125
44
E150 RD
Hudson Creek
Neosho River

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

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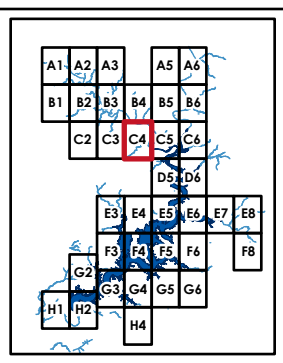

Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

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- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

1. Mapping shows the extent of inundation calculated using the H&H Study Operations Model and Upstream Hydraulic Model. **These maps represent the work of the H&H Study and are not to be used as shown for resource analysis purposes.**
2. Estimated inundation extent for normal (median) inflows and operations during the entire active and hibernation seasons.
3. See Overview Map for an explanation of the maximum inundation extent and notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

B4 B5 B6

C4 C6

Neosho River
Neosho River
Neosho River
Grand Lake O' the Cherokees
Grand Lake O' the Cherokees
137
S 630 RD
60
BNSF RR

D4 D5 D6

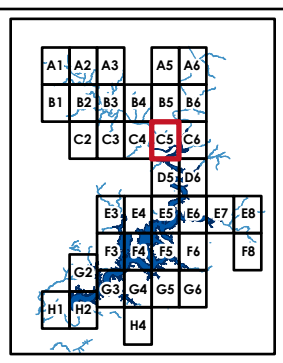
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

B5 B6

C5

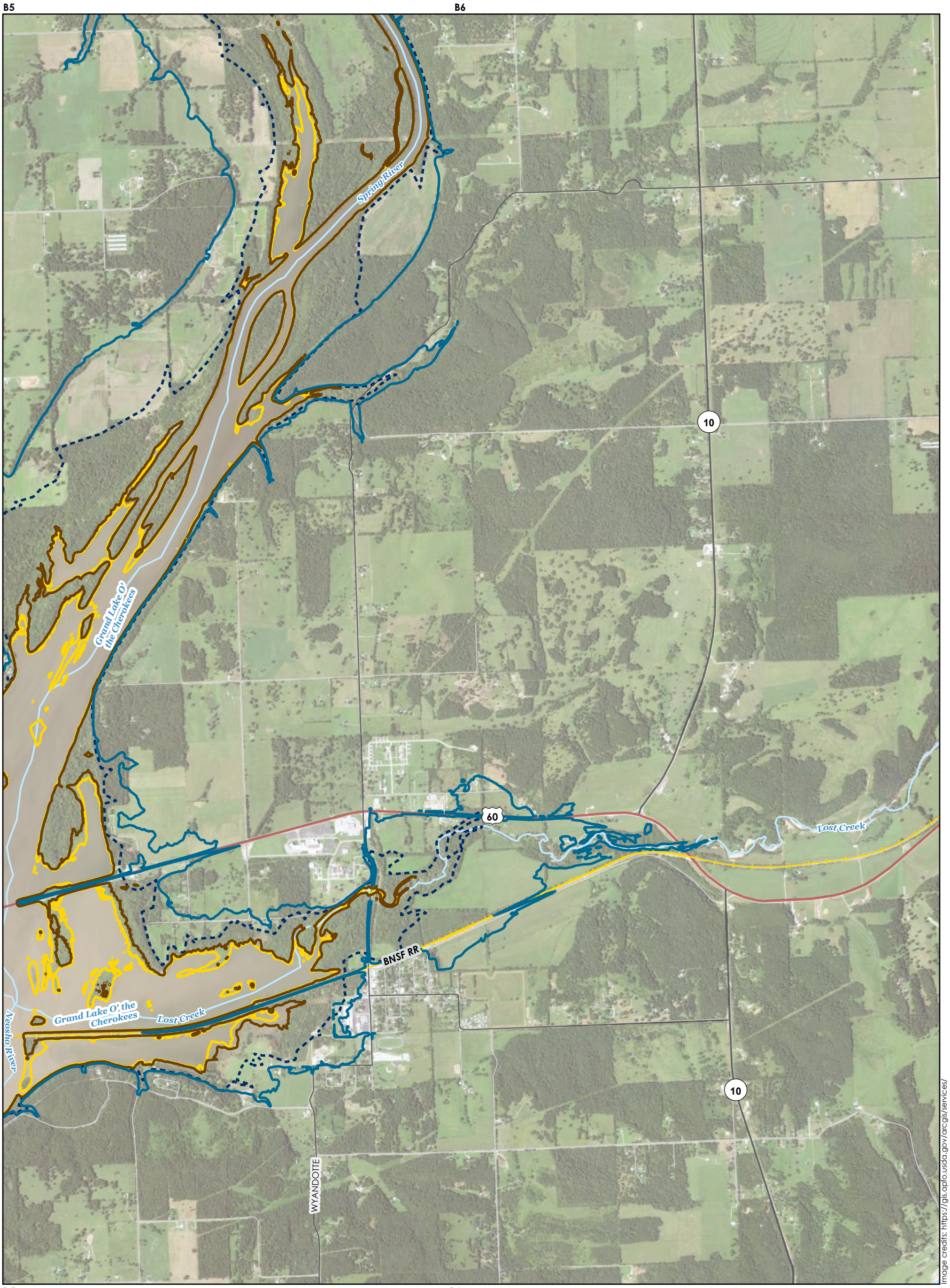


Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

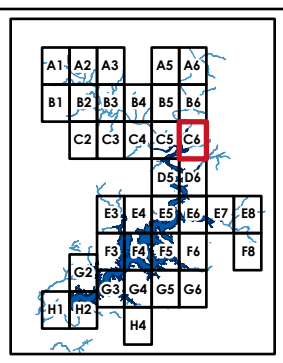
D5 D6

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet

1 inch = 2,000 feet



Legend

INUNDATION

- Terrestrial Inundation Areas, Baseline Operations
- Terrestrial Inundation Areas, Anticipated Operations
- Maximum Inundation

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road

- Railroad
- Stream
- County Boundary
- Project Boundary (2014)

MAP AND LEGEND NOTES

1. Mapping shows the extent of inundation calculated using the H&H Study Operations Model and Upstream Hydraulic Model. **These maps represent the work of the H&H Study and are not to be used as shown for resource analysis purposes.**
2. Estimated inundation extent for normal (median) inflows and operations during the entire active and hibernation seasons.
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022