

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

INUNDATION

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

Legend

ROAD CLASS

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

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

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: D5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

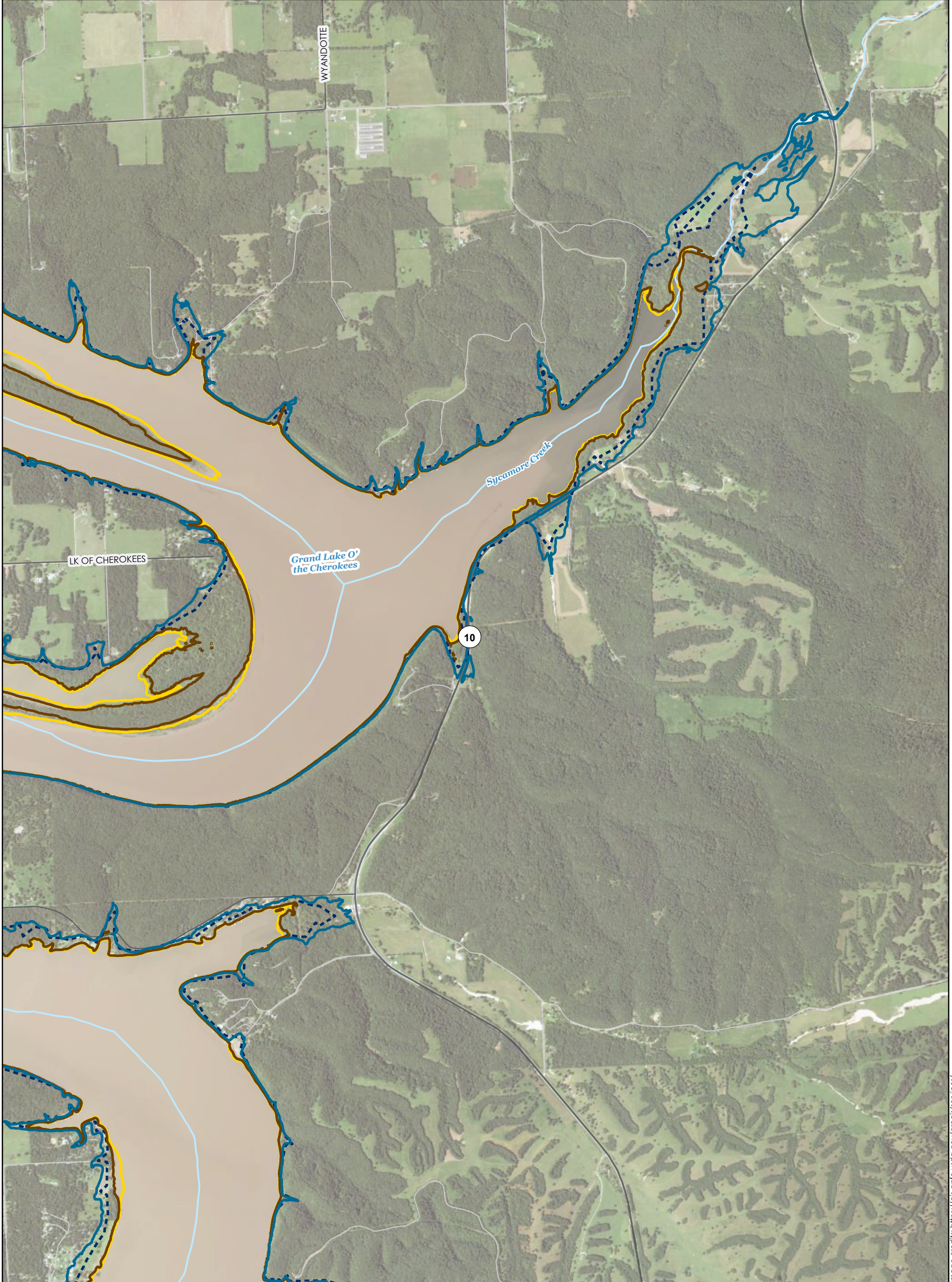
MAP AND LEGEND NOTES

- 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.**
- Estimated inundation extent for normal (median) inflows and operations during the entire active and hibernation seasons.
- See Overview Map for an explanation of the maximum inundation extent and notes on data sources.

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

C5

C6

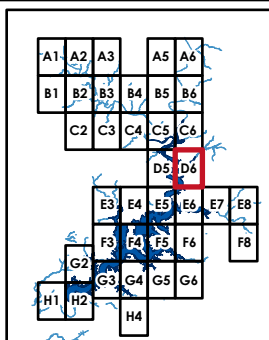
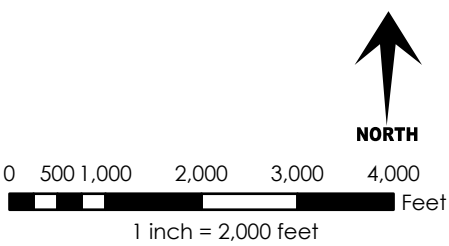


E5

E6

E7

**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

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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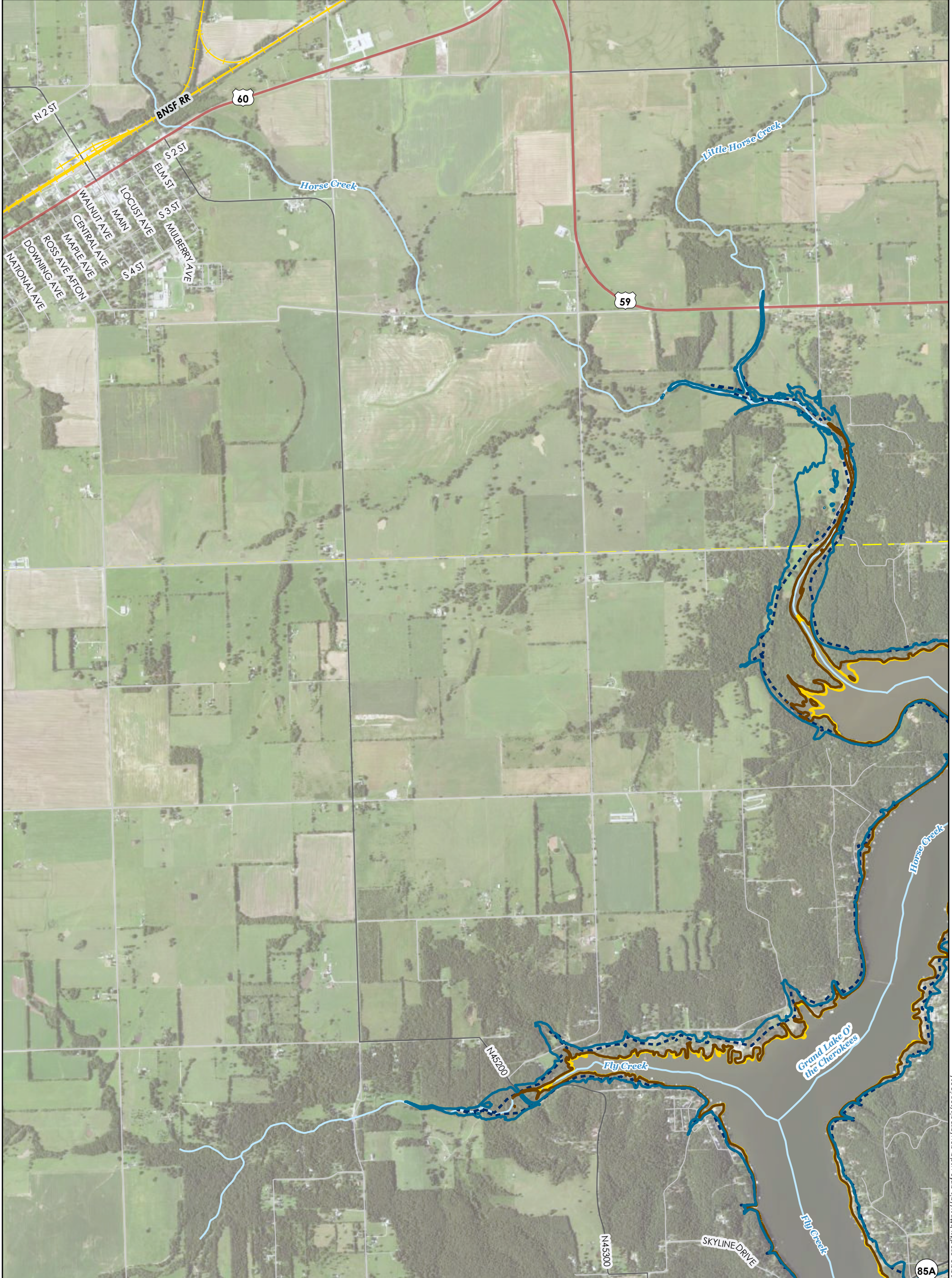
**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: D6

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

Image credits: https://gis.dplfo.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	ROAD CLASS	Railroad
Terrestrial Inundation Areas, Baseline Operations	Interstate	Stream
Terrestrial Inundation Areas, Anticipated Operations	State Highway	County Boundary
Maximum Inundation	US Highway	Project Boundary (2014)
	Major Collector	
	Local Road	

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

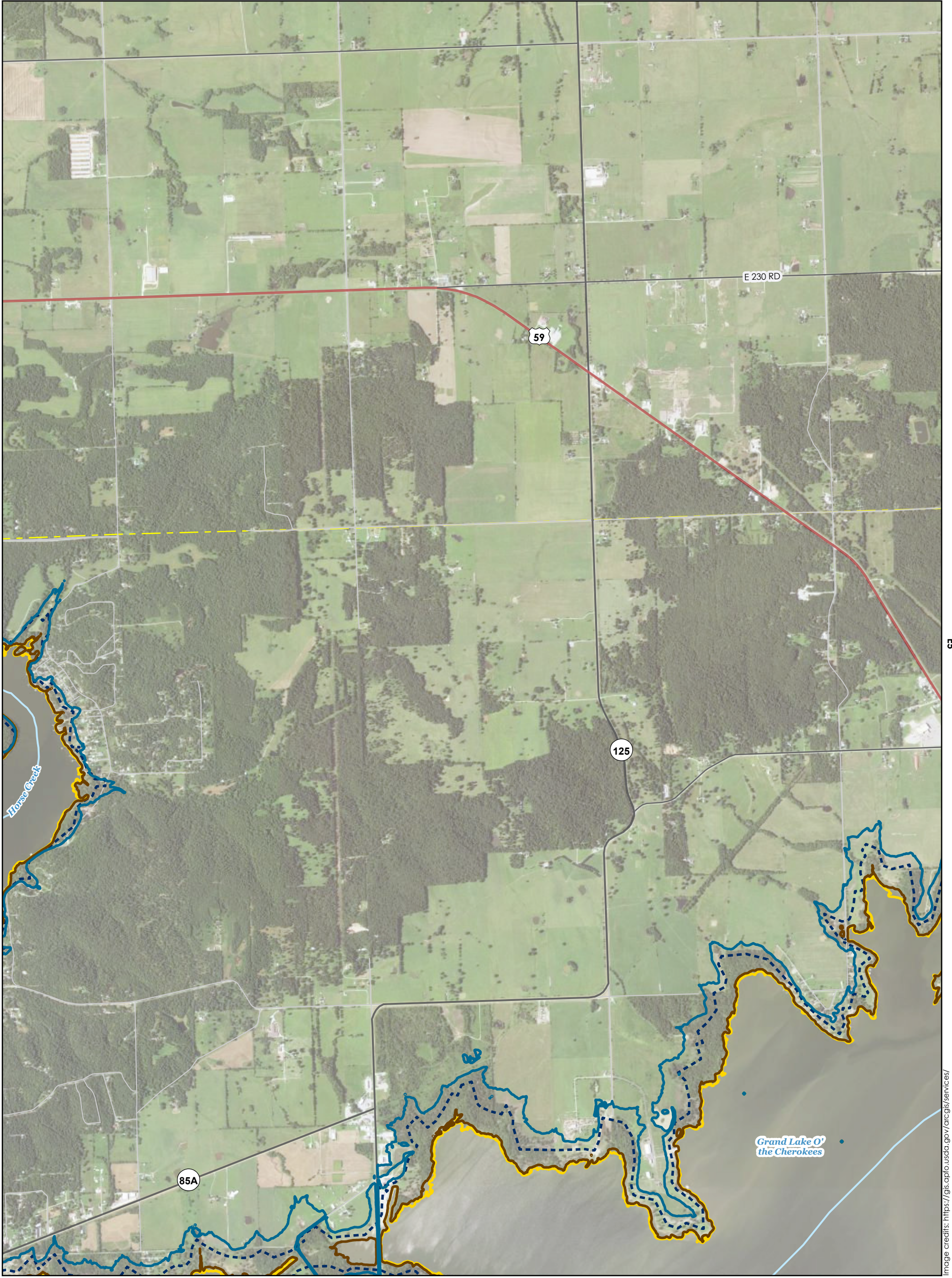
MAP: E3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

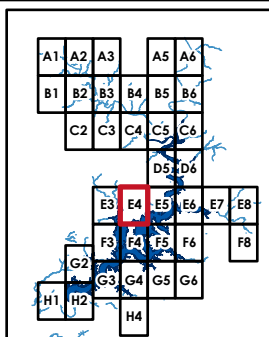
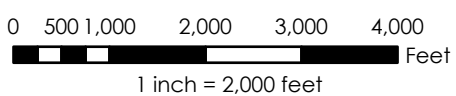
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MAP AND LEGEND NOTES

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**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

ROAD CLASS

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

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

MAP AND LEGEND NOTES

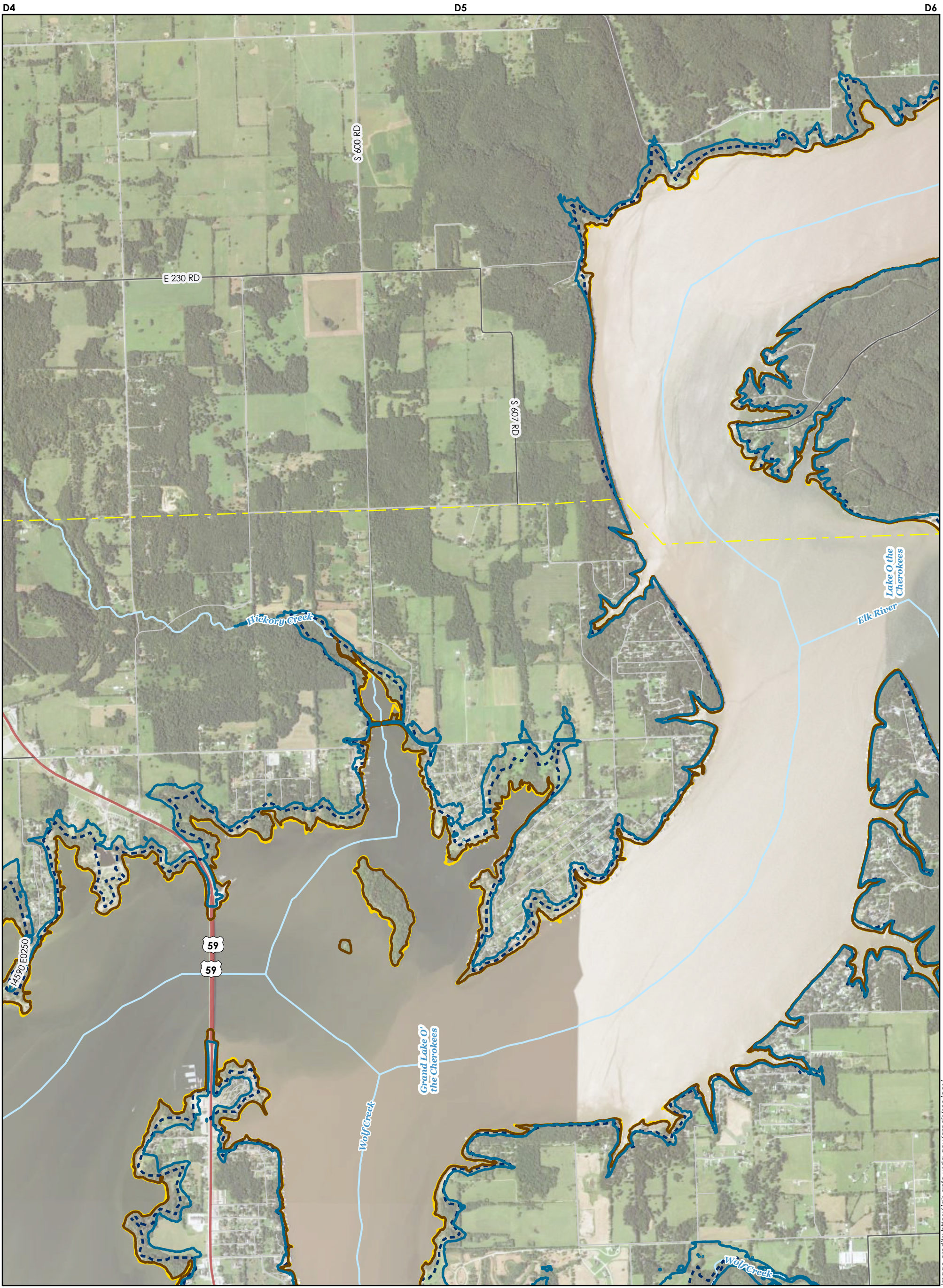
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**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: E4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

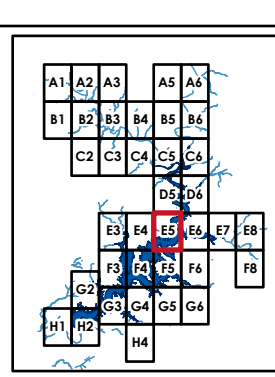


TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet



Legend

INUNDATION

- Yellow outline: Terrestrial Inundation Areas, Baseline Operations
- Brown outline: Terrestrial Inundation Areas, Anticipated Operations
- Blue dashed outline: Maximum Inundation

ROAD CLASS

- Blue line: Interstate
- Grey line: State Highway
- Red line: US Highway
- Grey line: Major Collector
- Grey line: Local Road

- Yellow line: Railroad
- Blue line: Stream
- Yellow dashed line: County Boundary
- Blue dashed line: Project Boundary
- Blue dashed line: Boundary (2014)

MAP AND LEGEND NOTES

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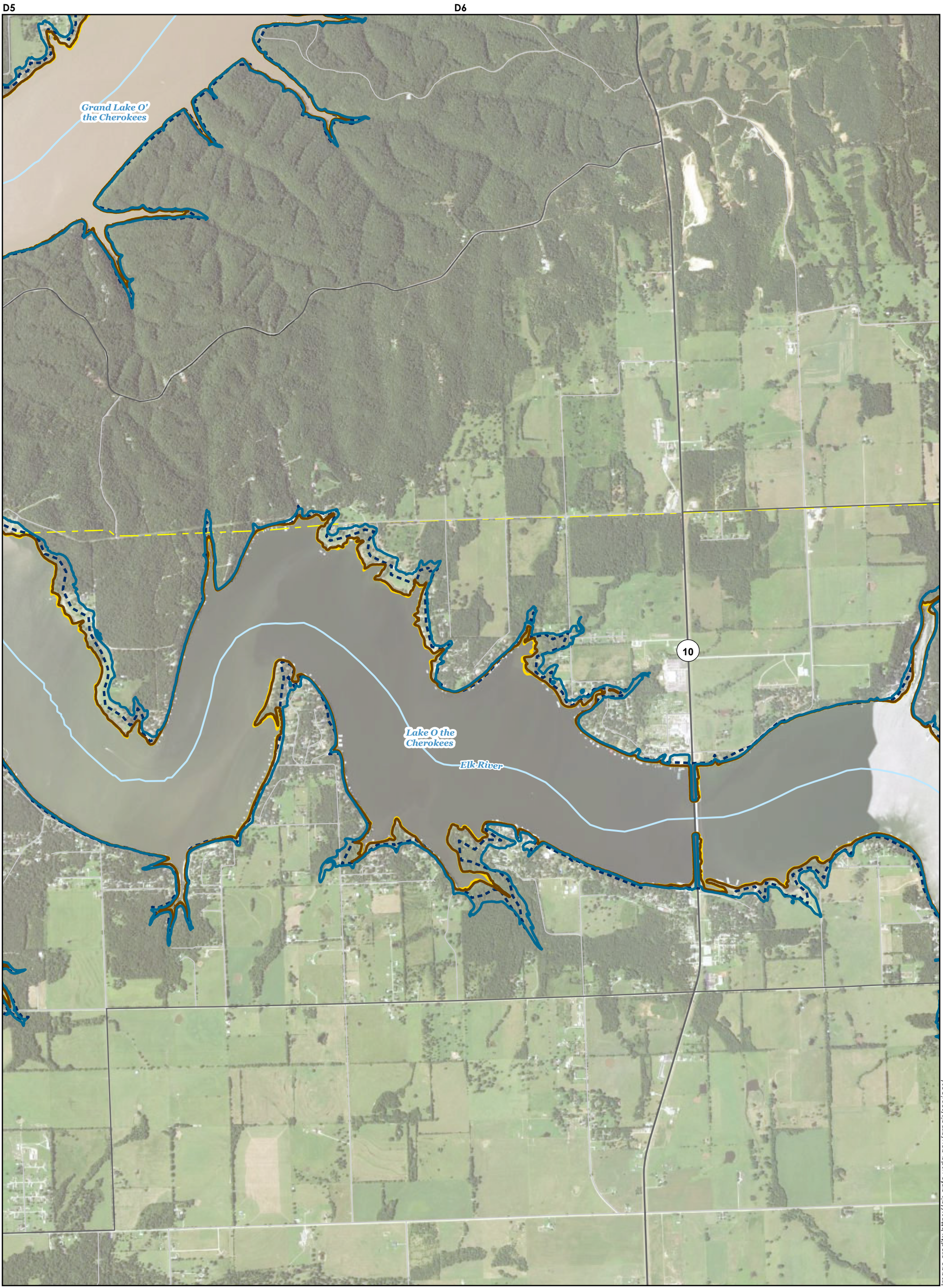
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

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September 2022

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

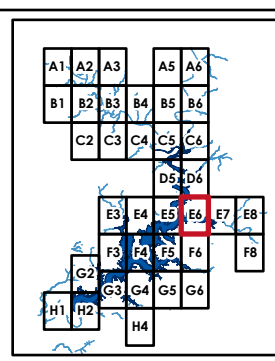


TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet



INUNDATION

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

ROAD CLASS

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

Legend

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

MAP AND LEGEND NOTES

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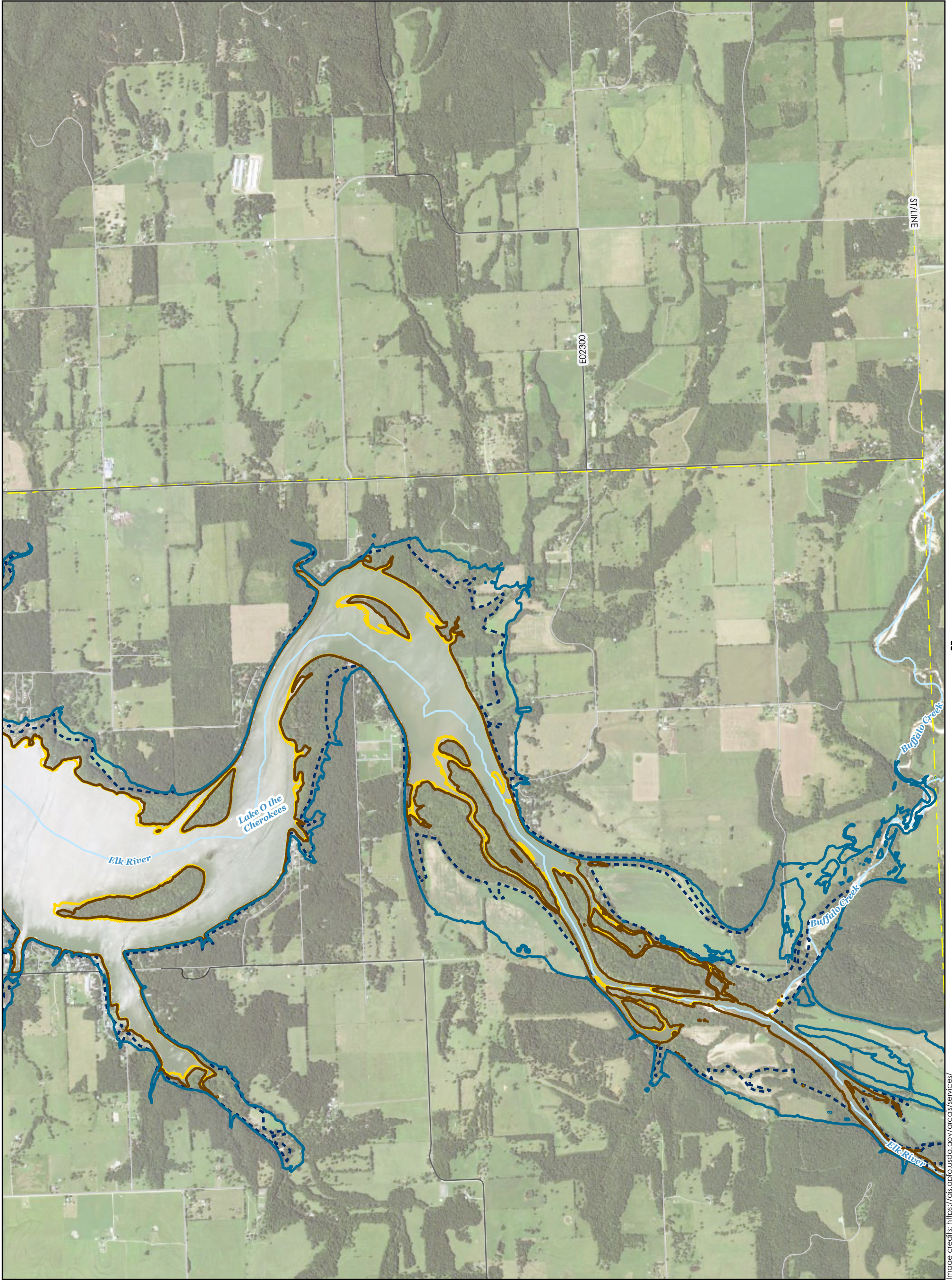
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: E6

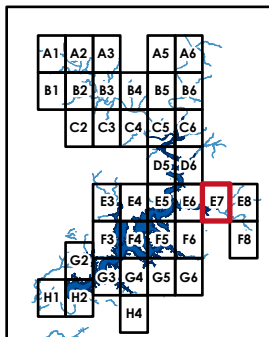
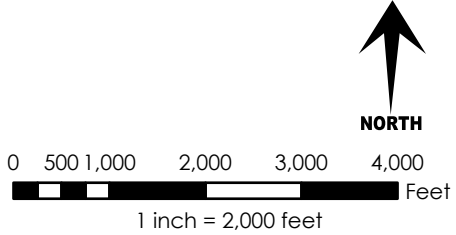
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

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



**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

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: E7

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

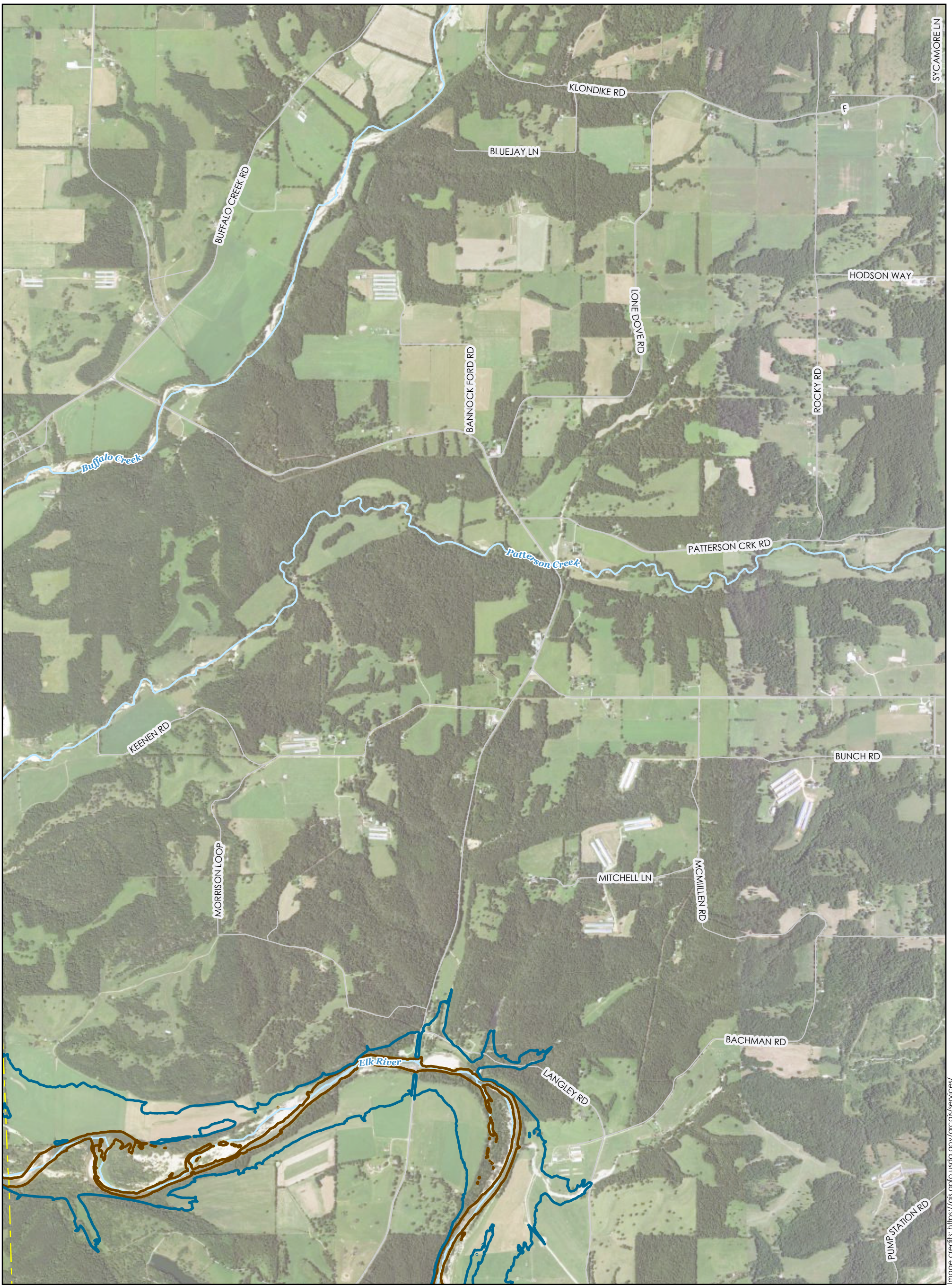
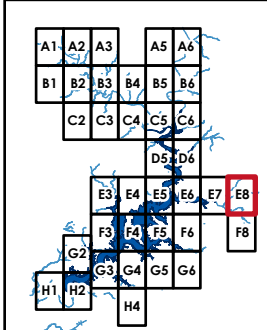
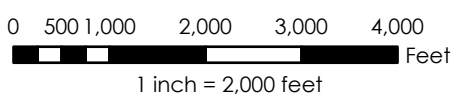


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F7

F8

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS



INUNDATION

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

Legend

ROAD CLASS

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

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

MAP AND LEGEND NOTES

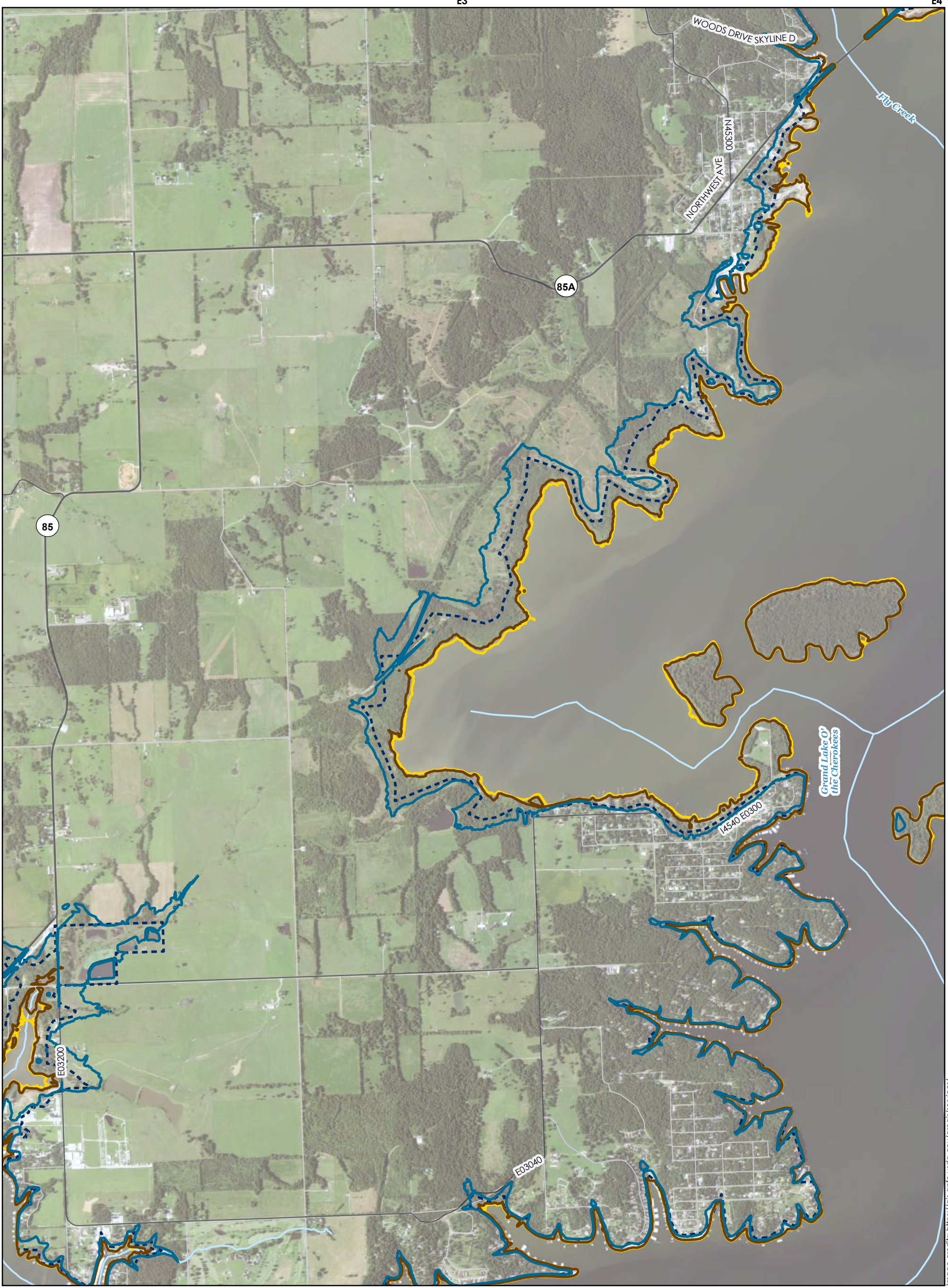
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PENSACOLA DAM GRAND RIVER DAM AUTHORITY

MAP: E8

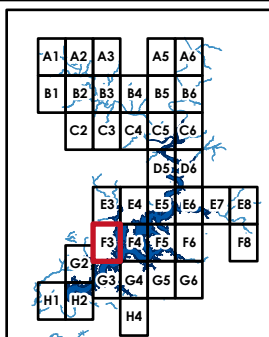
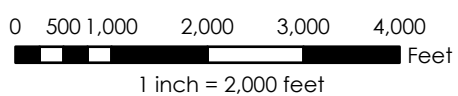
CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



G2 G3 G4

**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

ROAD CLASS

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

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

MAP AND LEGEND NOTES

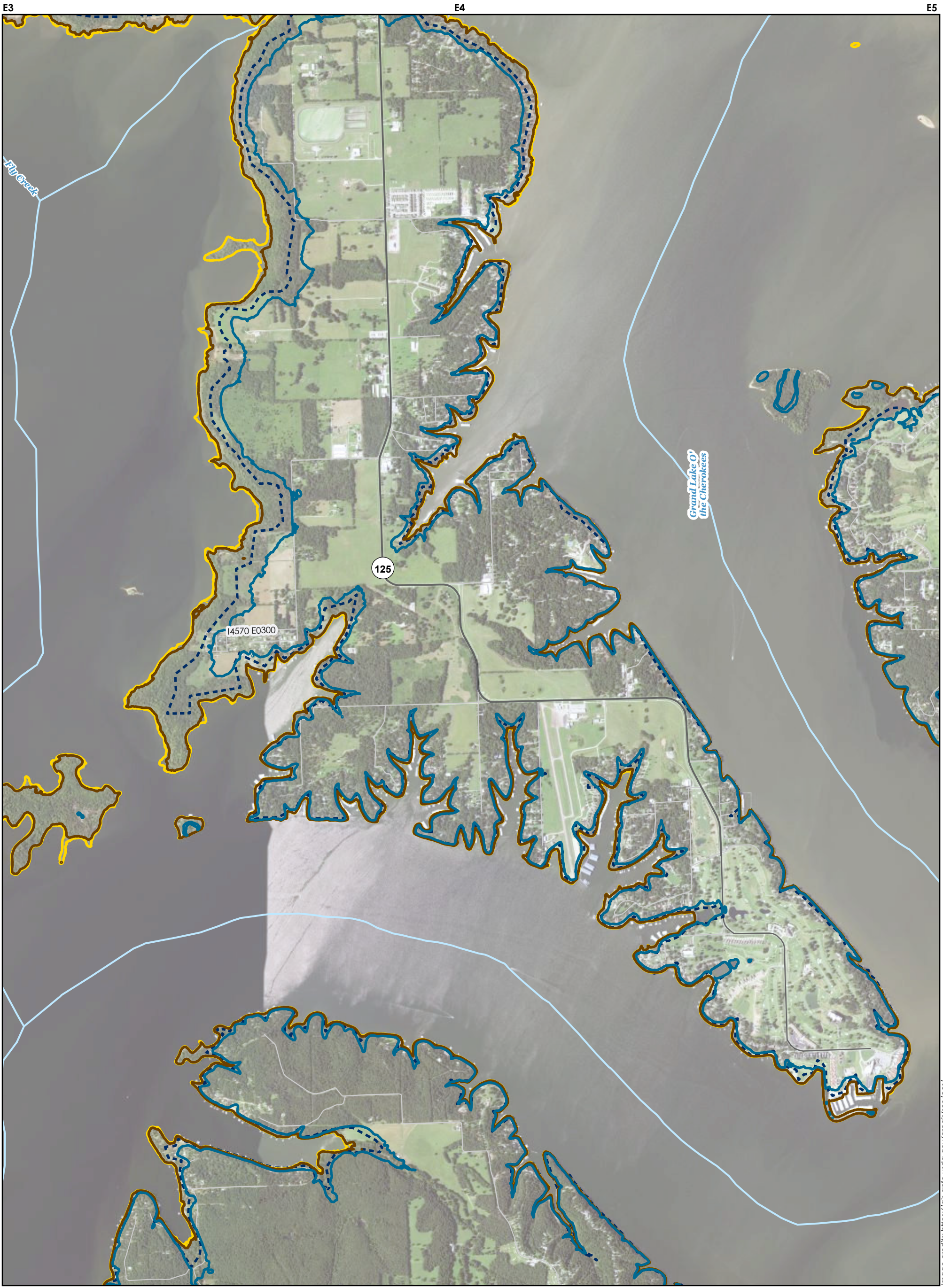
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**PENSACOLA DAM
GRAND RIVER DAM AUTHORITY**

MAP: F3

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

Legend

INUNDATION	ROAD CLASS	Railroad
Terrestrial Inundation Areas, Baseline Operations	Interstate	Stream
Terrestrial Inundation Areas, Anticipated Operations	State Highway	County Boundary
Maximum Inundation	US Highway	Project Boundary (2014)
	Major Collector	
	Local Road	

MAP AND LEGEND NOTES

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PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F4

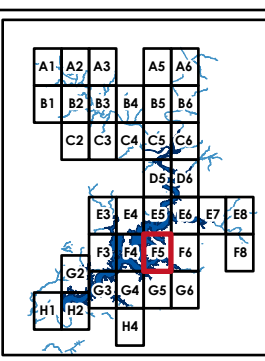
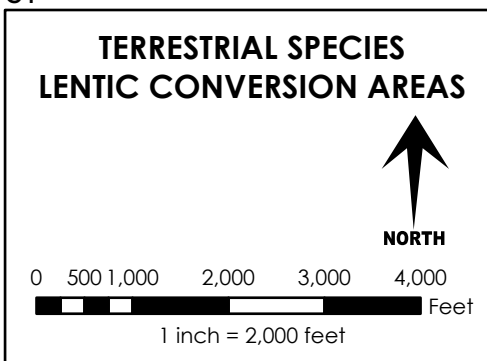
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Legend

INUNDATION	ROAD CLASS	Railroad
Terrestrial Inundation Areas, Baseline Operations	Interstate	Stream
Terrestrial Inundation Areas, Anticipated Operations	State Highway	County Boundary
Maximum Inundation	US Highway	Project Boundary (2014)
	Major Collector	Local Road

MAP AND LEGEND NOTES

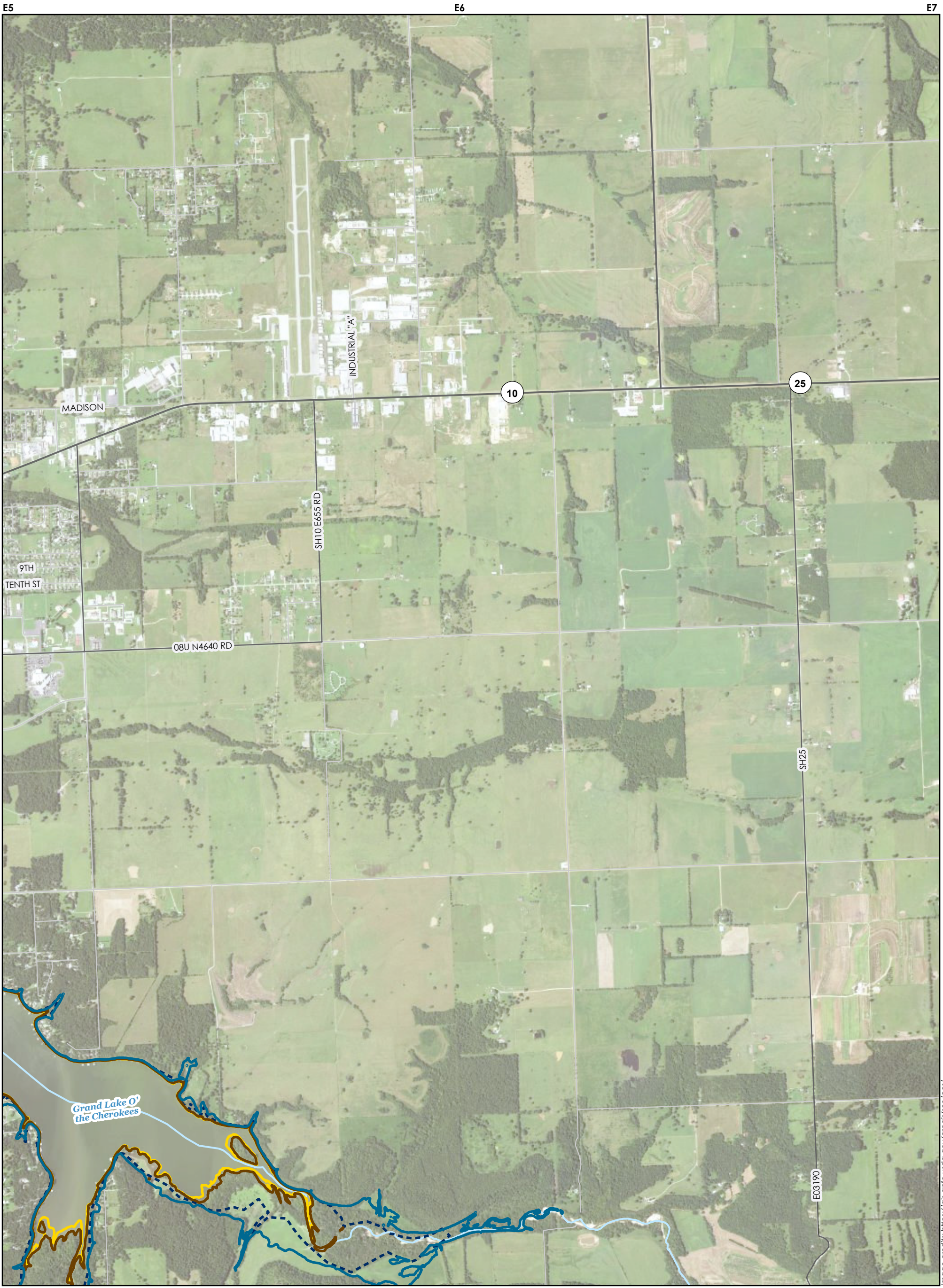
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PENSACOLA DAM
 GRAND RIVER DAM AUTHORITY

MAP: F5

CRAIG, DELAWARE, MAYES, AND
 OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
 September 2022



TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

INUNDATION

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

Legend

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: F6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

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September 2022

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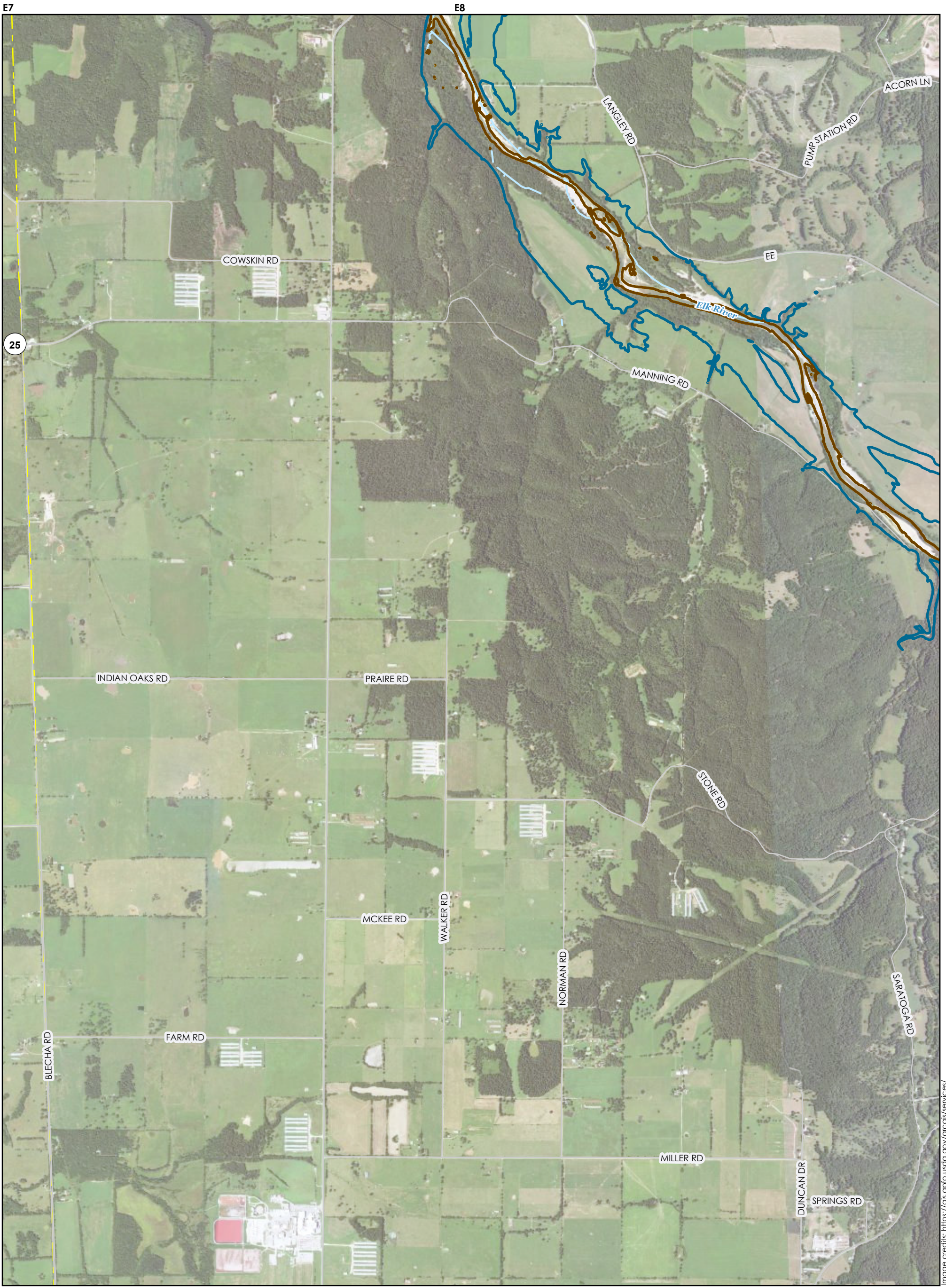
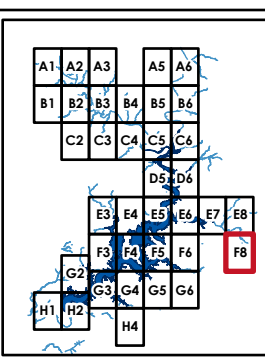


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TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

0 500 1,000 2,000 3,000 4,000 Feet
1 inch = 2,000 feet



INUNDATION

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

ROAD CLASS

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

Legend

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

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PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: F8

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

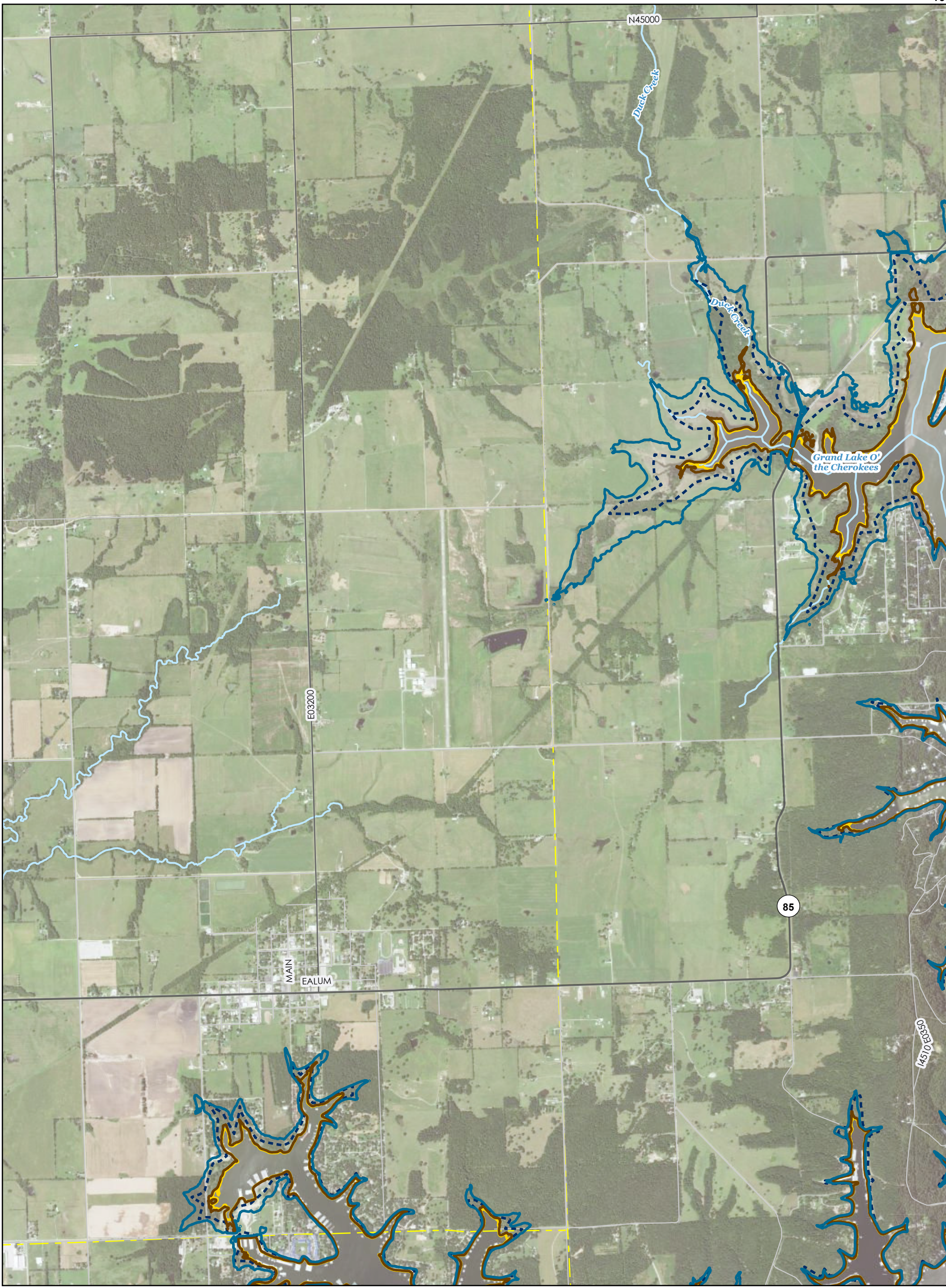


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TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet

INUNDATION

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

Legend

ROAD CLASS

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

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

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

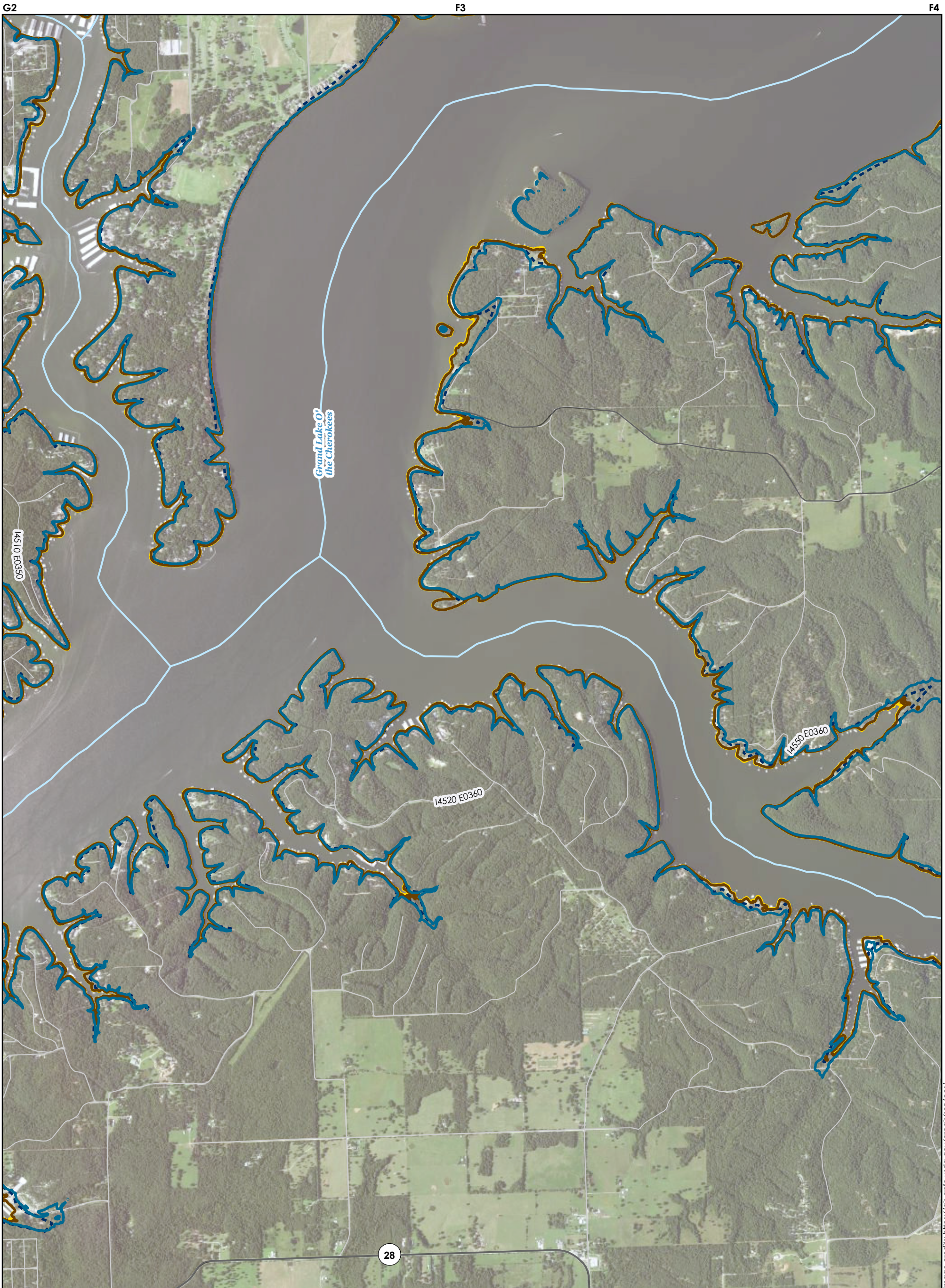
MAP: G2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

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TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet

INUNDATION

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

ROAD CLASS

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

Legend

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

MAP AND LEGEND NOTES

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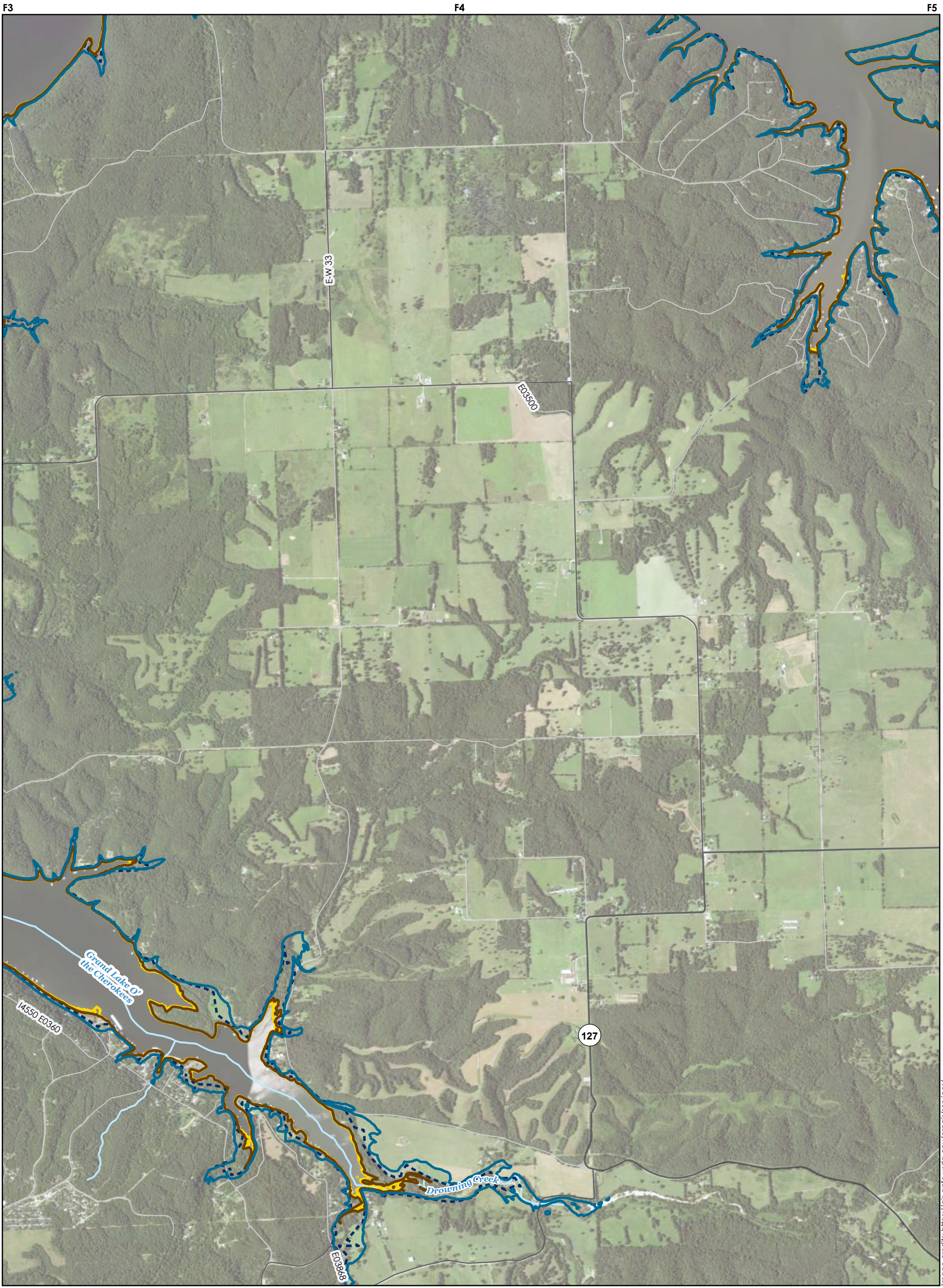
PENSACOLA DAM
GRAND RIVER DAM AUTHORITY

MAP: G3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

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TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

INUNDATION

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

Legend

ROAD CLASS

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

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

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

MAP AND LEGEND NOTES

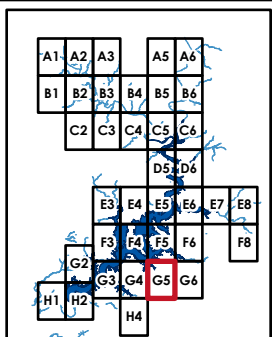
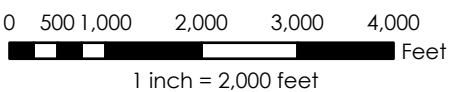
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F4 F5 F6 G4 G5 G6 H4 H5 H6

**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

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: G5

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022



TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet

INUNDATION

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

Legend

ROAD CLASS

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

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

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

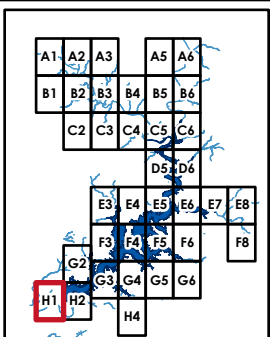
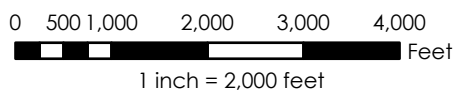
MAP AND LEGEND NOTES

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Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2014



**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

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: H1

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

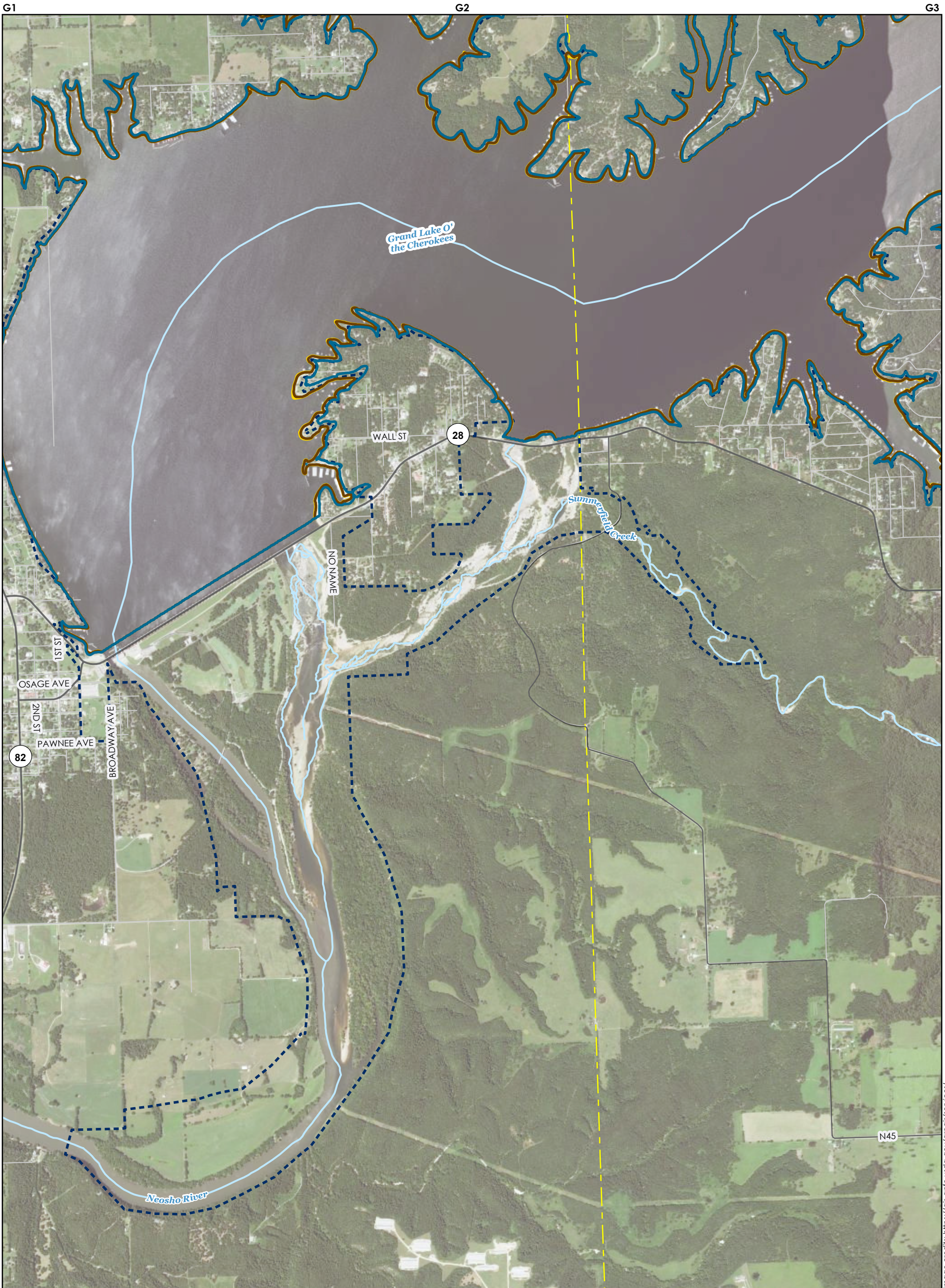


Image credits: https://gis.dplbo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2019

TERRESTRIAL SPECIES LENTIC CONVERSION AREAS

NORTH

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

1 inch = 2,000 feet

INUNDATION

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

Legend

ROAD CLASS

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

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

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: H2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022

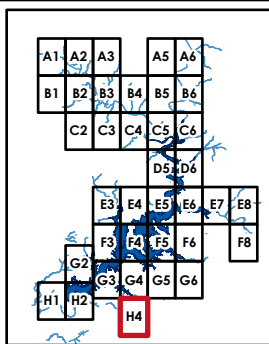
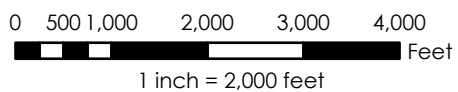
MAP AND LEGEND NOTES

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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.



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

**TERRESTRIAL SPECIES
LENTIC CONVERSION AREAS**



INUNDATION

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

Legend

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: H4

CRAIG, DELAWARE, MAYES, AND
OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494
September 2022