Upstream Model Results Overview Map

Pensacola Dam

GRAND RIVER DAM AUTHORITY

September 2022

Overview Map Legend

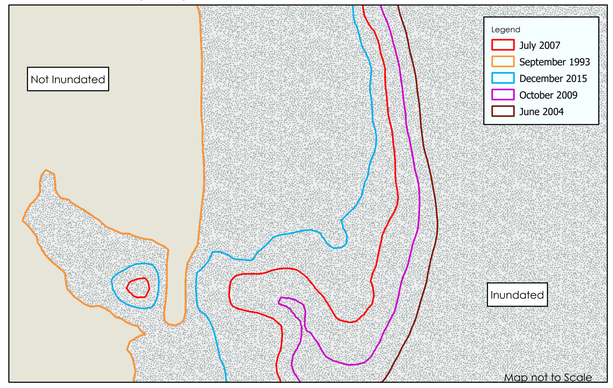
- 1:24,000-scale Map Sheet
- State Boundary
- County Boundary
- Municipality
- Unincorporated

Road Class

- Interstate
- US Highway

Inundation Scenario Mapping

Mapping shows the extent of inundation for historical flow events, using the historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.



0 1.25 2.5 5 7.5 10 Miles

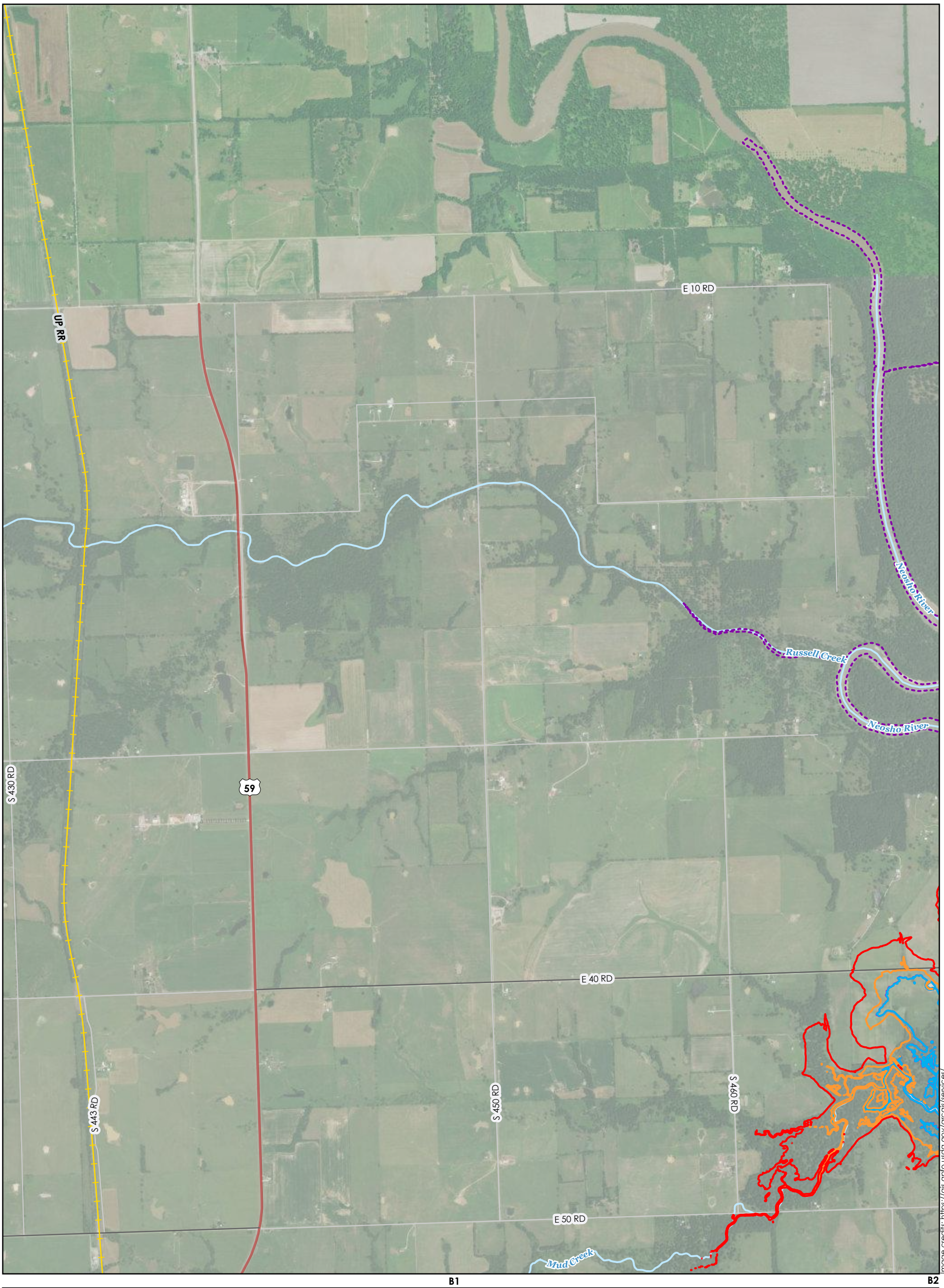
NORTH

Map Notes

Data Sources for Maps:

1. Base map images from https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021
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).
3. Parcels owned by GRDA are from GIS parcel data provided by County Assessor's Offices (2020).
4. The displayed Flowage Easement is equal to the 760-foot NGVD29 elevation contour, extracted from 2011 Dewberry LiDAR.

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

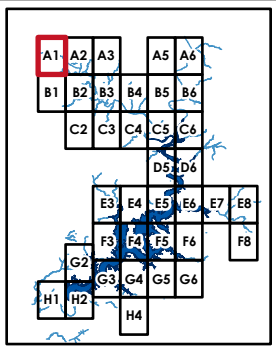


HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
2. See Overview Map for 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

E00300

Squaw Creek

Neosho River

E 40 RD

A1

A3

B1

B2

B3

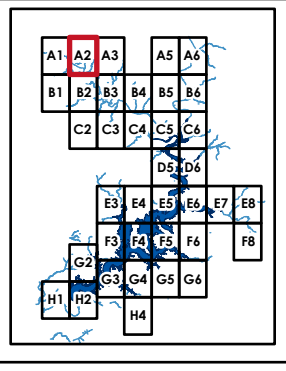
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS

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

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MAP 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

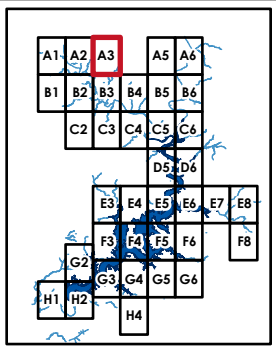
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
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- October 2009
- June 2004

ROAD CLASS

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

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MAP 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

A4

A6

E 10 RD

BNSF RR

69A

CHERRY ST

ELM ST

QUAPAW ST

KENTUCKY ST

VIRGINIA ST

WHITEBIRD RD

137

E 50 RD

E 57 RD

B4

B5

B6

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

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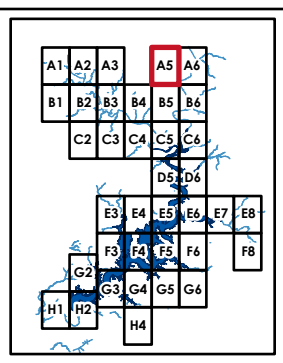

Legend

MAX INUNDATION

- July 2007
- September 1993
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- October 2009
- June 2004

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
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MAP 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

B5

B6

Spring River

E 10 RD

69A

S 630 RD

E 50 RD

E 57 RD

44

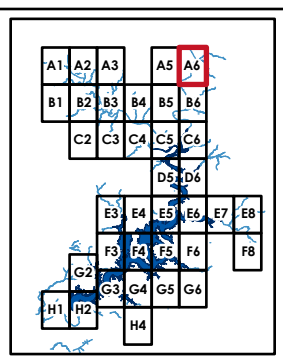
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
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- October 2009
- June 2004

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

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- GRDA Ownership

MAP 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

B2

C1 C2

Mud Creek

Cow Creek

59

10

2

UP RR

FIRST

3RD

COMMERCE

JEFFERSON

CURTIS

SPRINGFIELD

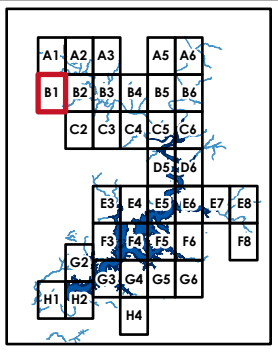
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
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ROAD CLASS
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MAP 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

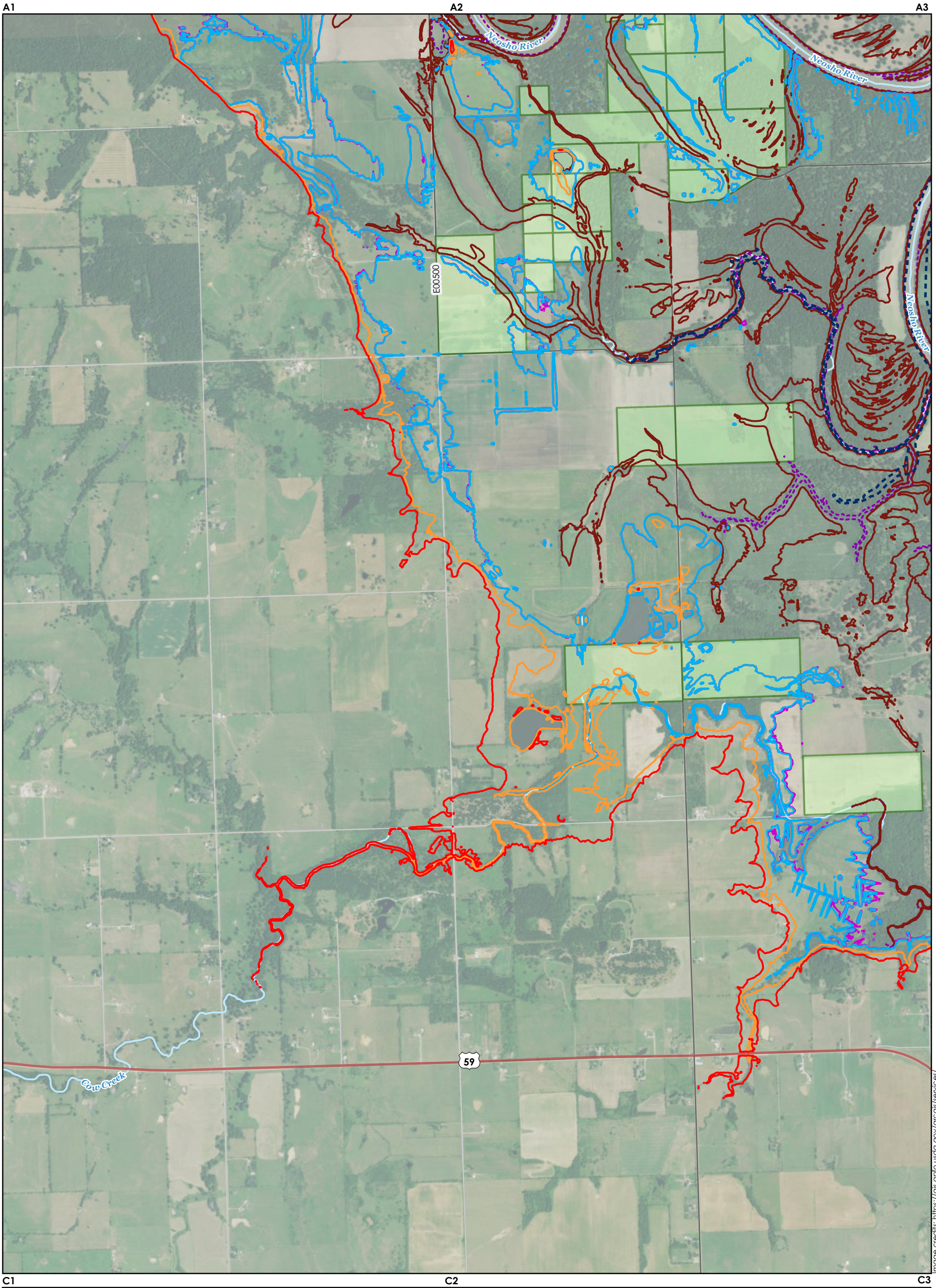


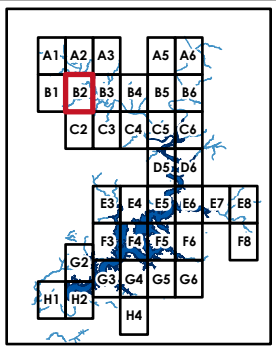
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
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MAP NOTES

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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

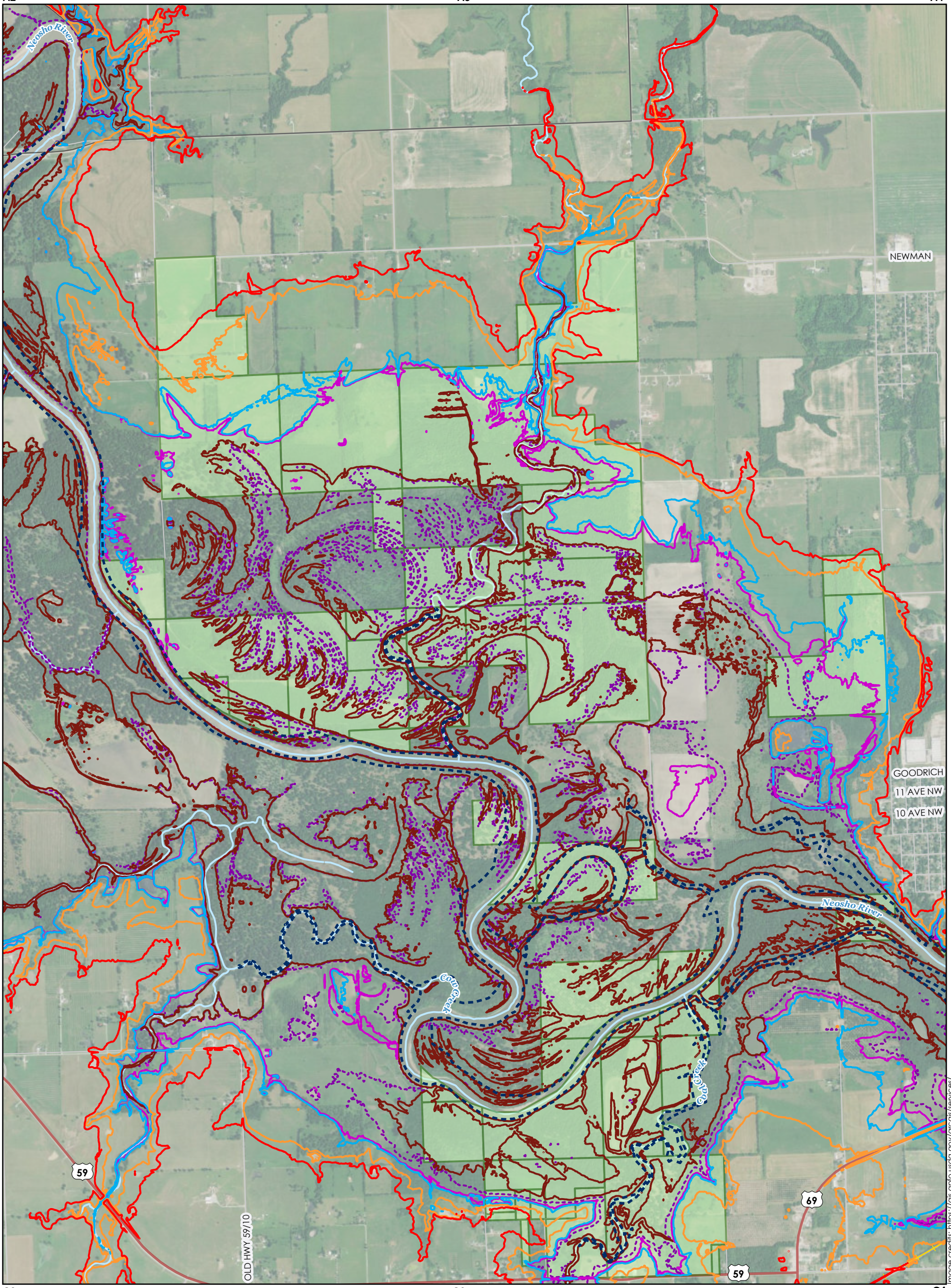


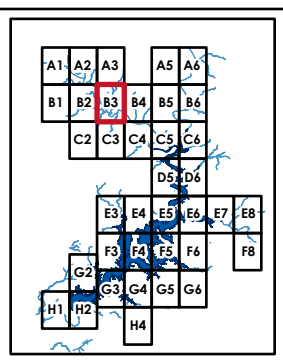
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

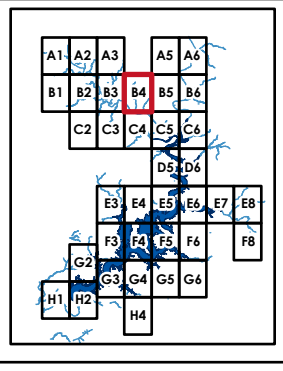
C3 C4 C5

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
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- June 2004

ROAD CLASS
- Interstate
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- US Highway
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MAP NOTES

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2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B4

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, 2021

A4 A5 A6

B4 B6

C4 C5 C6

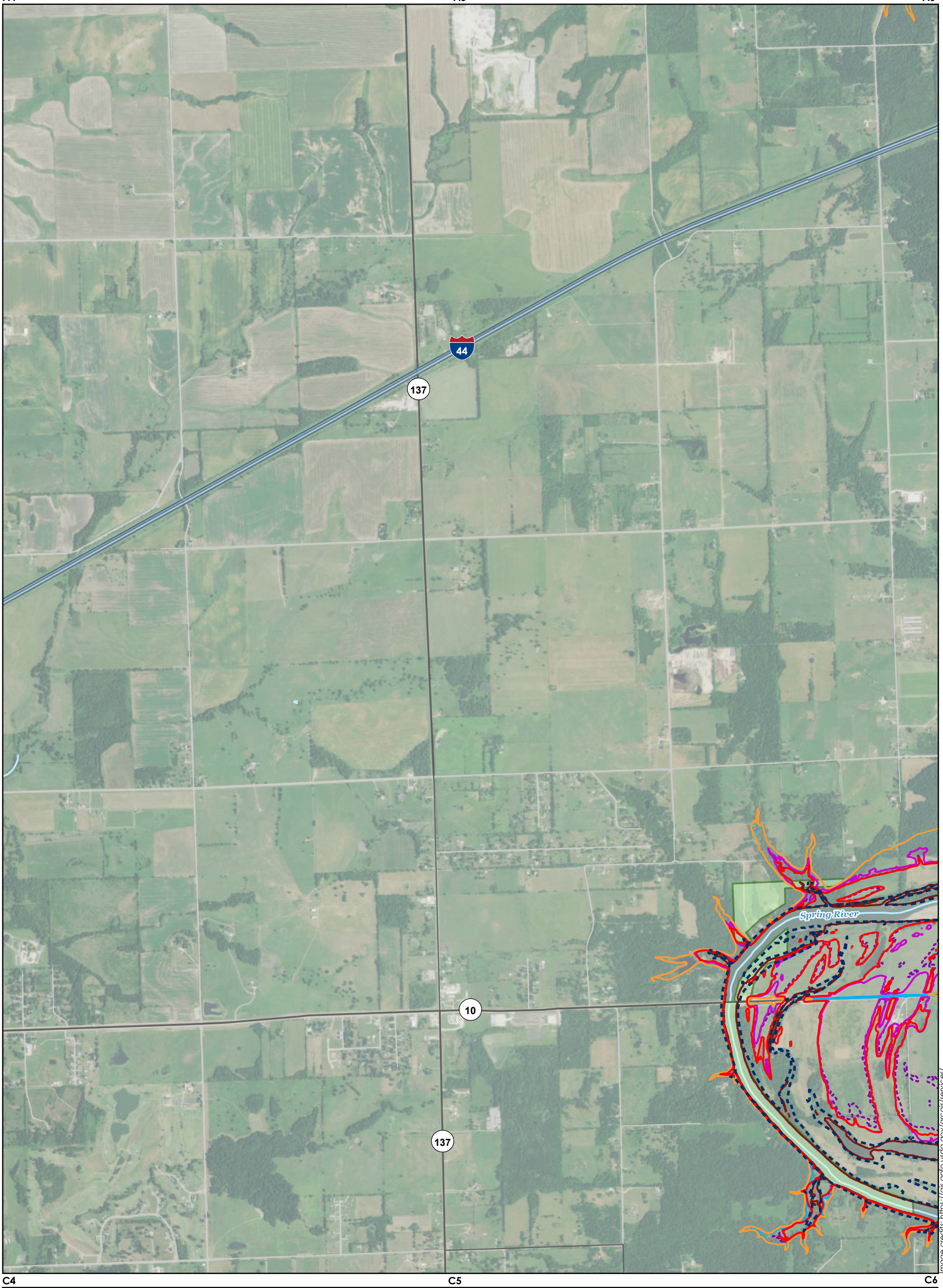


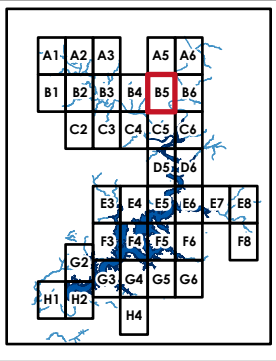
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: B5

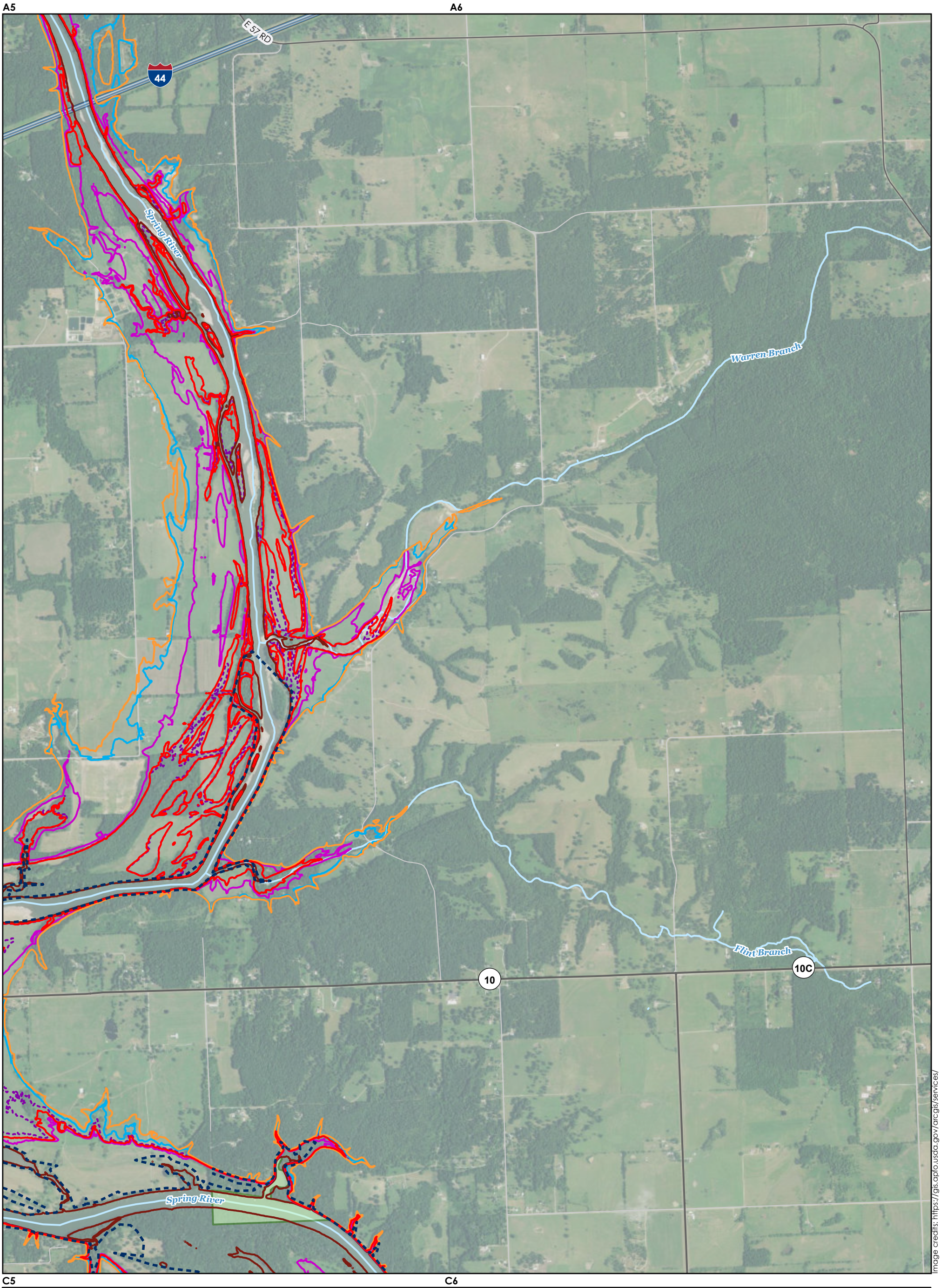
CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

A5 A6

B5



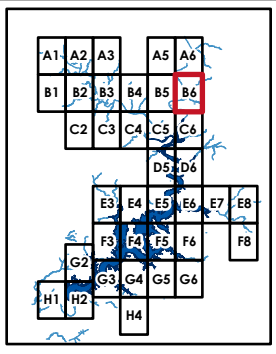
C5 C6

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
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- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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MAP 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

D1 D2 D3

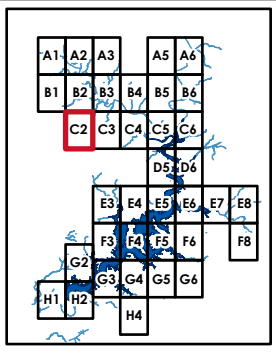
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



MAX INUNDATION

- July 2007
- September 1993
- December 2015
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Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
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- Flowage Easements
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MAP NOTES

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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

S 520 RD

P ST SW

BNSF RR

59

25

E150 RD

Coal Creek

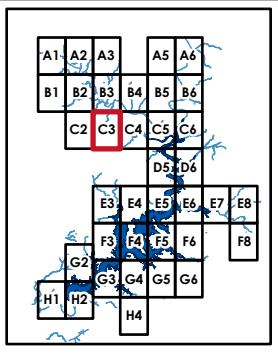
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
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- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
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- Major Collector
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- Flowage Easements
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MAP NOTES

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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

Neosho River

K ST SW

SH125 E ST

M ST SW

SUNSET STRIP

125

44

E150 RD

Hudson Creek

Neosho River

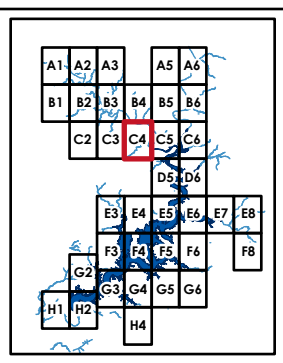
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
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ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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- GRDA Ownership

MAP NOTES

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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

D4 D5 D6

S 630 RD

137

60

Neosho River

Neosho River

Neosho River

Grand Lake O' the Cherokees

Grand Lake O' the Cherokees

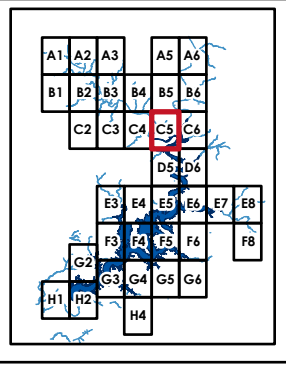
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
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ROAD CLASS
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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

D5 D6

Spring River
Grand Lake O' the Cherokees
Lost Creek
Neosho River
BNSF RR
WYANDOTTE
60
10
10

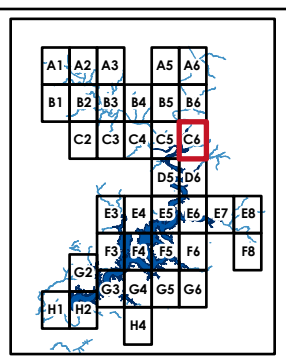
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: C6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

C4 C5 C6

D4 D6

E4 E5 E6

Ogeechee Creek

60

BNSF RR

LK OF CHEROKEES

Bee Creek

Grand Lake O' the Cherokees

S 600 RD

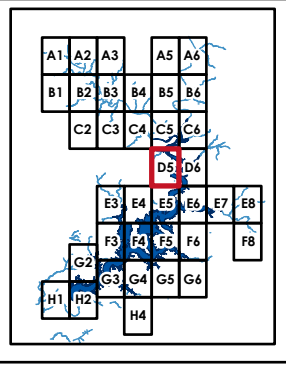
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

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2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: D5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

C5 C6

D5

E5 E6 E7

WYANDOTTE

LK OF CHEROKEES

Sycamore Creek

Grand Lake O' the Cherokees

10

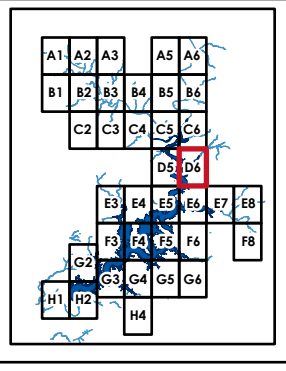
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP 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

D2 D3 D4

E4

F3 F4

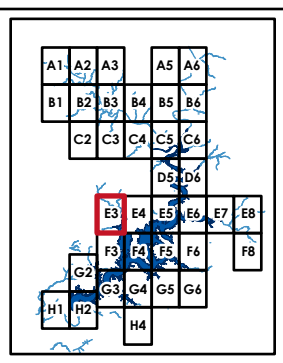
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

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2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: E3

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

D3 D4 D5

E3 E5

F3 F4 F5

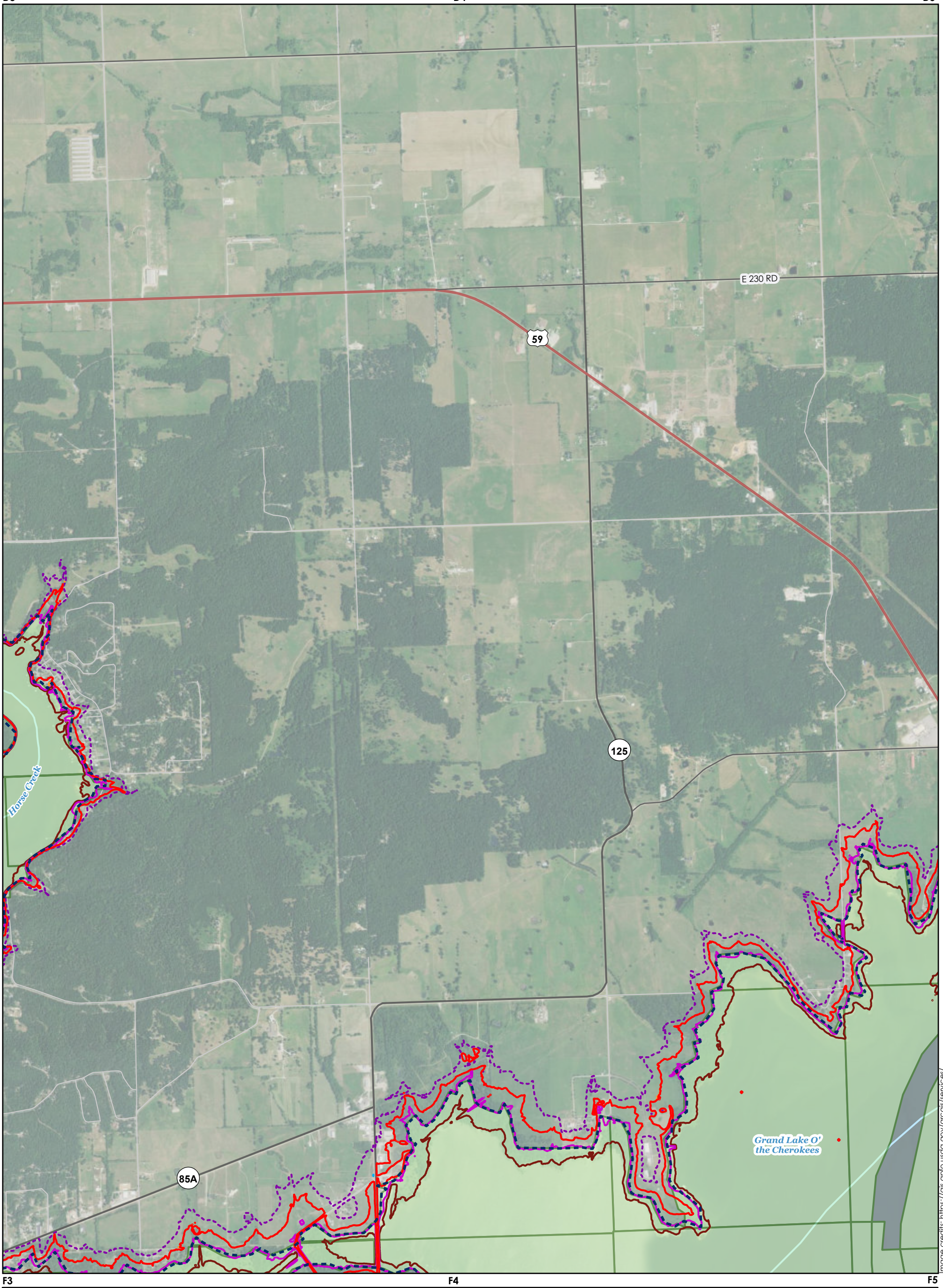


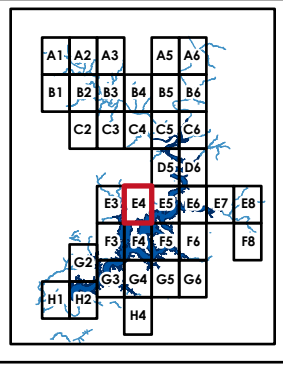
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: E4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

D4 D5 D6

E4 E6

F4 F5 F6

S 600 RD
E 230 RD
S 607 RD
Lake O the Cherokees
Elk River
Hickory Creek
59
59
Grand Lake O' the Cherokees
Wolf Creek

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet

A1 A2 A3 A5 A6
B1 B2 B3 B4 B5 B6
C2 C3 C4 C5 C6
D5 D6
E3 E4 E5 E6 E7 E8
F3 F4 F5 F6 F8
G2 G3 G4 G5 G6
H1 H2 H4

Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: E5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

D5 D6

Grand Lake O' the Cherokees

Lake O the Cherokees

Elk River

10

E5 E7

F5 F6 F7

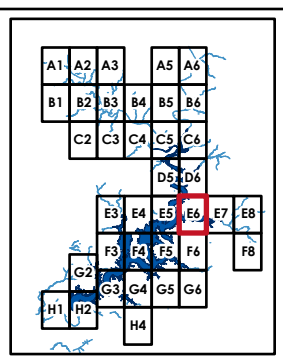
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP 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

D6

E6

E8

ST/LINE

E02300

Lake O the Cherokees

Elk River

Buffalo Creek

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

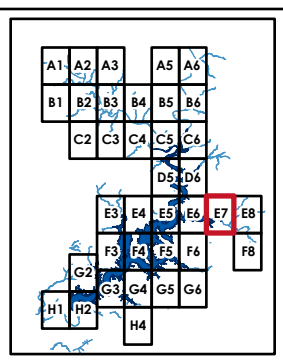
F6 F7 F8

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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MAP 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

KLONDIKE RD
F
SYCAMORE LN
BLUEJAY LN
BUFFALO CREEK RD
HODSON WAY
LONE DOVE RD
BANNOCK FORD RD
ROCKY RD
Buffalo Creek
PATTERSON CRK RD
Patterson Creek
E7
KEENEN RD
BUNCH RD
MORRISON LOOP
MITCHELL LN
MCMIILLEN RD
BACHMAN RD
LANGLEY RD
PUMP STATION RD
F7
F8

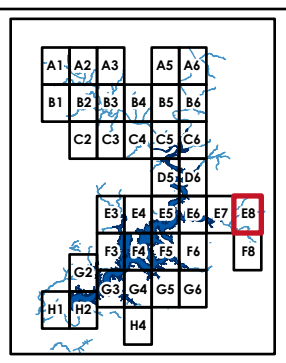
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

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MAP 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

E3 E4

WOODS DRIVE SKYLINE D

N4530O

NORTHWEST AVE

Fly Creek

85A

85

E03200

E03040

Grand Lake O' the Cherokees

F4

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

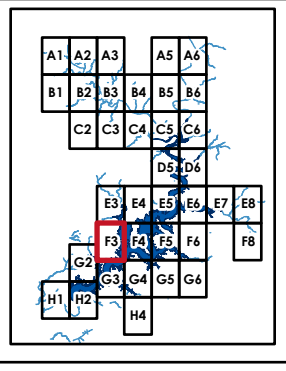
G2 G3 G4

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

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MAP 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

E3 E4 E5

F3 F5

G3 G4 G5

Fly Creek

Grand Lake O' the Cherokees

125

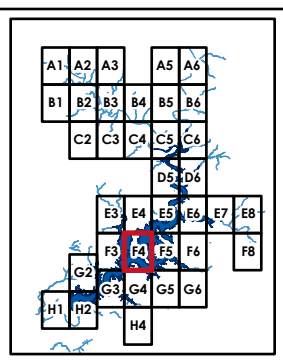
I4570 E0300

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS
- Interstate
- State Highway
- US Highway
- Major Collector
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MAP NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: F4

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, 2021

E4 E5 E6

F4 F6

63RD ST
55TH
Wolf Creek
Spring Branch
08C 280 RD
MADISON
O'DANIEL ST
59
10
FOURTH ST
FIFTH ST
SIXTH ST
7TH ST
NINTH ST
TENTH ST
HAZEL
MILL ST
9TH
ELEVENTH ST
05U 595 RD
BAY SHORE
ASH
QUAIL RUN RD
01U BAY CREST
BROADWAY AVE
QUAIL RUN
11U LEISURE RD
KAYLA
SMITH ROAD
02U HAR-BER RD
TAYLOR
EVANS RD
SUMAC
STATE PARK RD
Grand Lake O' the Cherokees
Elm Creek
WOODLAND HILLS RD
E03125 PINE
09U THOMPSON RD
US59 MAIN ST

G4 G5 G6

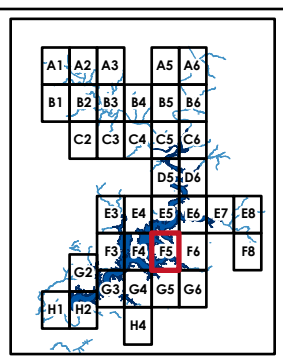
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

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- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: F5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

E5 E6 E7

F5 F7

G5 G6 G7

INDUSTRIAL "A"

10

25

MADISON

SH10 E655 RD

9TH

TENTH ST

08U N4640 RD

SH25

Grand Lake O' the Cherokees

E03190

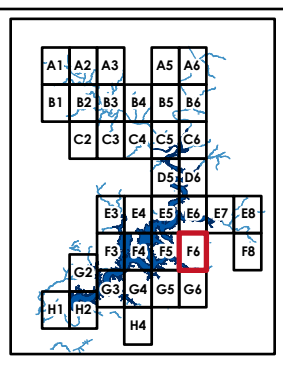
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
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MAP NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: F6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

E7 E8

F7

G7 G8

COWSKIN RD
MANNING RD
25
LANGLEY RD
PUMP STATION RD
ACORN LN
EE
INDIAN OAKS RD
PRAIRE RD
STONE RD
WALKER RD
MCKEE RD
NORMAN RD
SARATOGA RD
BLECHA RD
FARM RD
MILLER RD
DUNCAN DR
SPRINGS RD

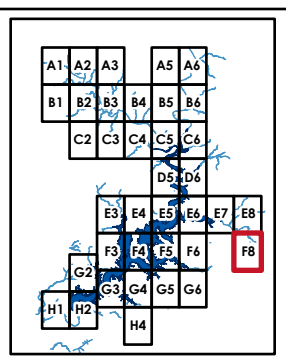
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

- Railroad
- Stream
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- Project Boundary
- GRDA Ownership

MAP NOTES

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2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: F8

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

F3

N45000

Duck Creek

Grand Lake O' the Cherokees

G1

G3

E03200

MAIN

EALUM

85

I4570 E0350

H1

H2

G3

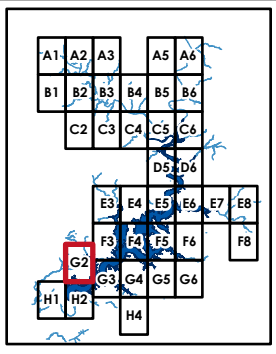
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
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- Railroad
- Stream
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MAP NOTES

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2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

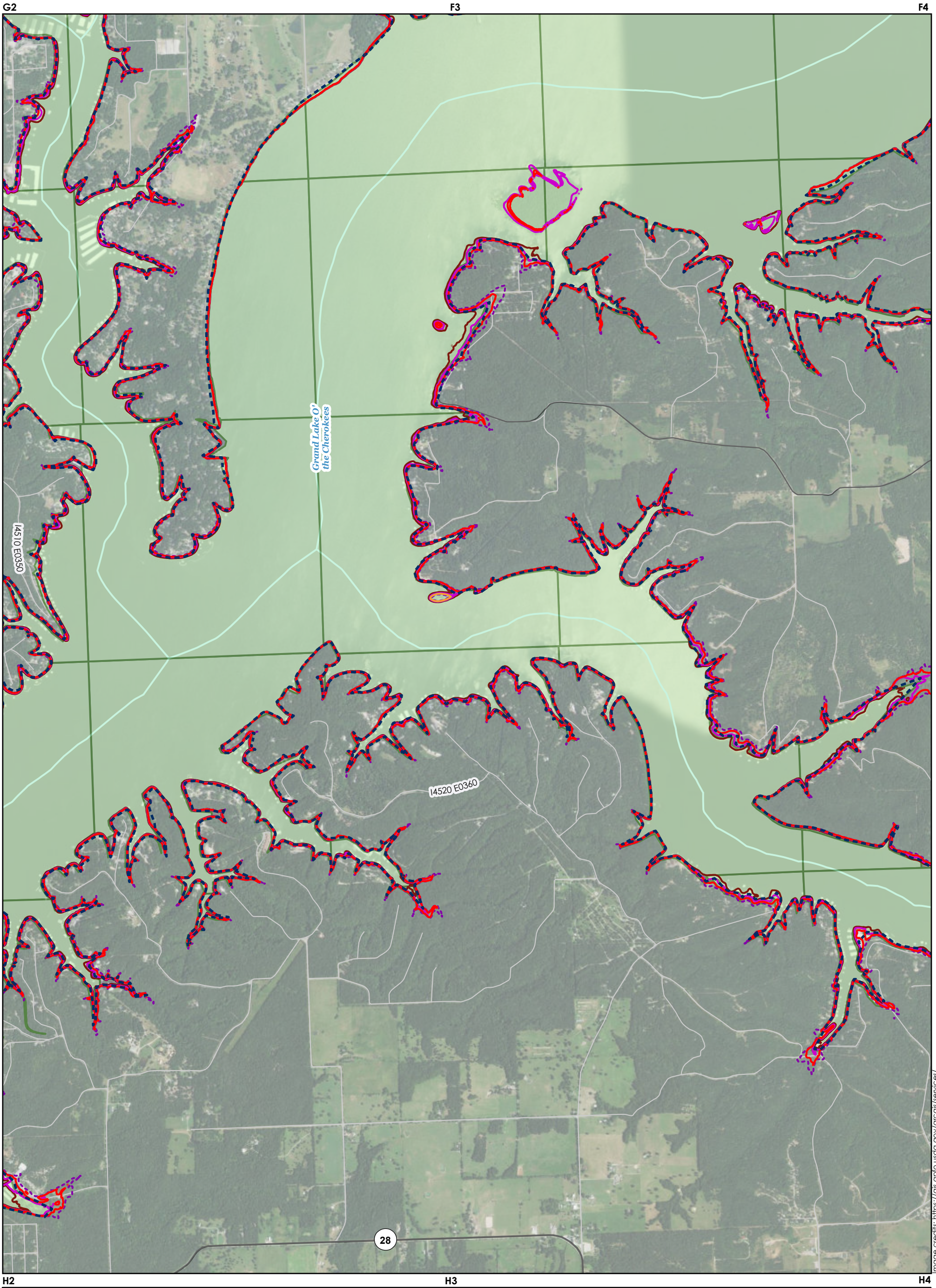
MAP: G2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

G2 F3 F4



G2 G4

H2 H3 H4

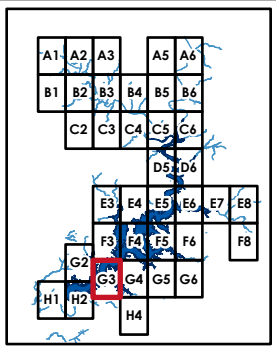
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

Legend

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
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- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP 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

F3 F4 F5

G3 G5

H3 H4 H5

E-W 33

E03500

Grand Lake O' the Cherokees

I4550 E0360

127

E03868

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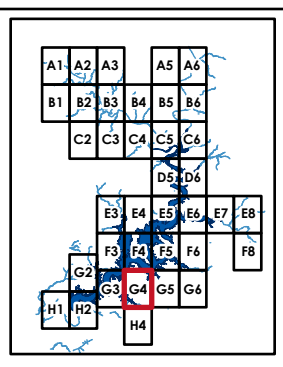
HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS

- Interstate
- State Highway
- US Highway
- Major Collector
- Local Road
- Railroad
- Stream
- Flowage Easements
- Project Boundary
- GRDA Ownership

MAP NOTES

1. Simulations of historical inflow events use historical starting stage at Pensacola Dam. Pensacola Dam stage during the inflow event is calculated by the Operations Model.
2. See Overview Map for notes on data sources.

PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

F4 F5 F6

G4 G6

H4 H5 H6

Grand Lake O' the Cherokees

CO COMM CHANGE

59

127

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

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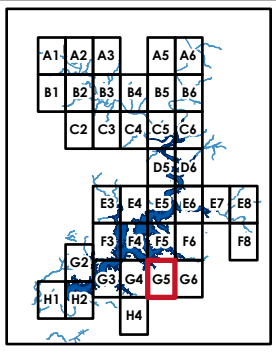

Legend

MAX INUNDATION
- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

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

- Railroad
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MAP NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G5

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

F5 F6 F7

G5 G7

H5 H6 H7

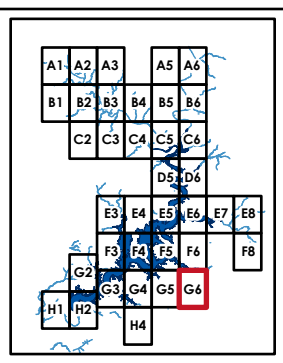
Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

1 inch = 2,000 feet



Legend

MAX INUNDATION

- July 2007
- September 1993
- December 2015
- October 2009
- June 2004

ROAD CLASS

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

- Railroad
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MAP NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: G6

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

G1 G2 H2

Grand Lake O' the Cherokees
Mustang Creek
82
WHISKEY RD
28
Big Cabin Creek
Elm Creek
Neosho River
MAPLE BROOKE RD
4TH ST
82

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

HISTORICAL INUNDATION SCENARIOS

NORTH

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

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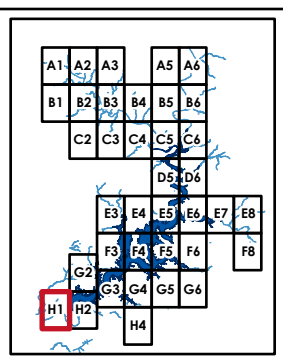

Legend

MAX INUNDATION
- July 2007
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- June 2004

ROAD CLASS
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- US Highway
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: H1

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

G1 G2 G3

H1 H3

Grand Lake O' the Cherokees

WALL ST

28

NO NAME

Summerfield Creek

1ST ST

OSAGE AVE

2ND ST

PAWNEE AVE

BROADWAY AVE

82

N45

Neosho River

Image credits: https://gis.apfo.usda.gov/arcgis/services/NAIP/USDA_CONUS_PRIME/ImageServer, 2021

H3

HISTORICAL INUNDATION SCENARIOS

NORTH

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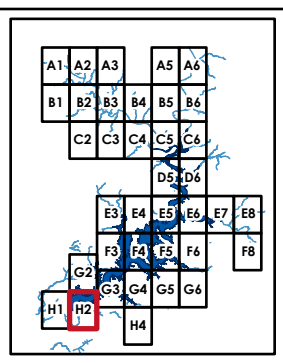

Legend

MAX INUNDATION

- July 2007
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- June 2004

ROAD CLASS

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- Major Collector
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MAP NOTES

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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: H2

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022

G3 G4 G5

H3 H5

E03868

28

20

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HISTORICAL INUNDATION SCENARIOS

NORTH

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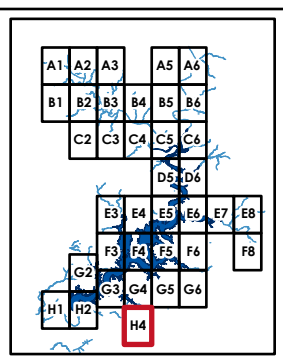

Legend

MAX INUNDATION
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- October 2009
- June 2004

ROAD CLASS
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PENSACOLA DAM

GRAND RIVER DAM AUTHORITY

MAP: H4

CRAIG, DELAWARE, MAYES, AND OTTAWA COUNTIES, OKLAHOMA

FERC No. 1494

September 2022