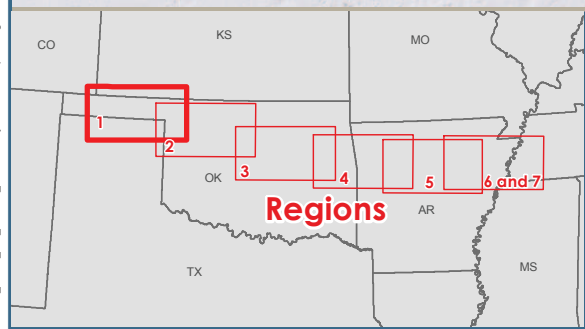


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Project Features

- HVDC Applicant Proposed Route (APR)
- Link Node
- Region Break Line
- Converter Station Siting Area
- AC Collection System
- AC Collection System Route Centerline
- AC Interconnection Siting Area

Region 1 HVDC Alternative Routes

- AR 1-A
- AR 1-B
- AR 1-C
- AR 1-D

Connected Actions

- Wind Development Zone
- Future Optima Substation

Note: Routes shown with representative lines not indicative of corridor or ROW widths

USDA Cropland

- Alfalfa
- Barley
- Barren
- Canola
- Corn
- Cotton
- DbI Crop Barley/Corn
- DbI Crop WinWht/Corn

Other Crops

- Other Hay/Non Alfalfa
- Peanuts
- Peas
- Potatoes
- Pumpkins
- Rye
- Shrubland
- Sorghum

Other Crops

- Soybeans
- Spring Wheat
- Sunflower
- Sweet Corn
- Switchgrass
- Triticale
- Winter Wheat

Other Crops

- DbI Crop WinWht/Cotton
- DbI Crop WinWht/Sorghum
- Not Cropland
- Dry Beans
- Fallow/Idle Cropland
- Grass/Pasture
- Herbs
- Millet
- Oats

Plains & Eastern EIS

Figure 3.2-1a: Cropland in Region 1

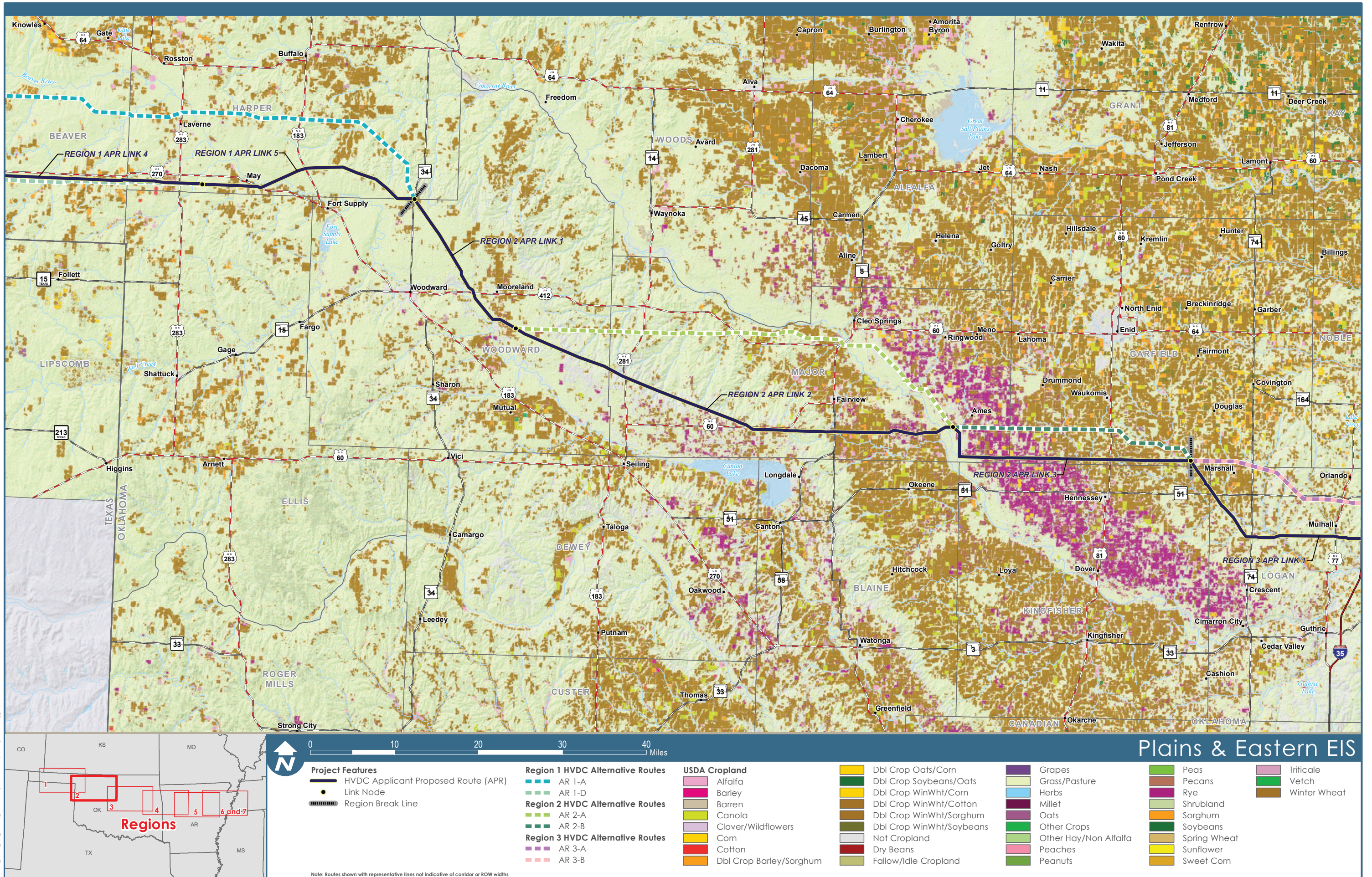
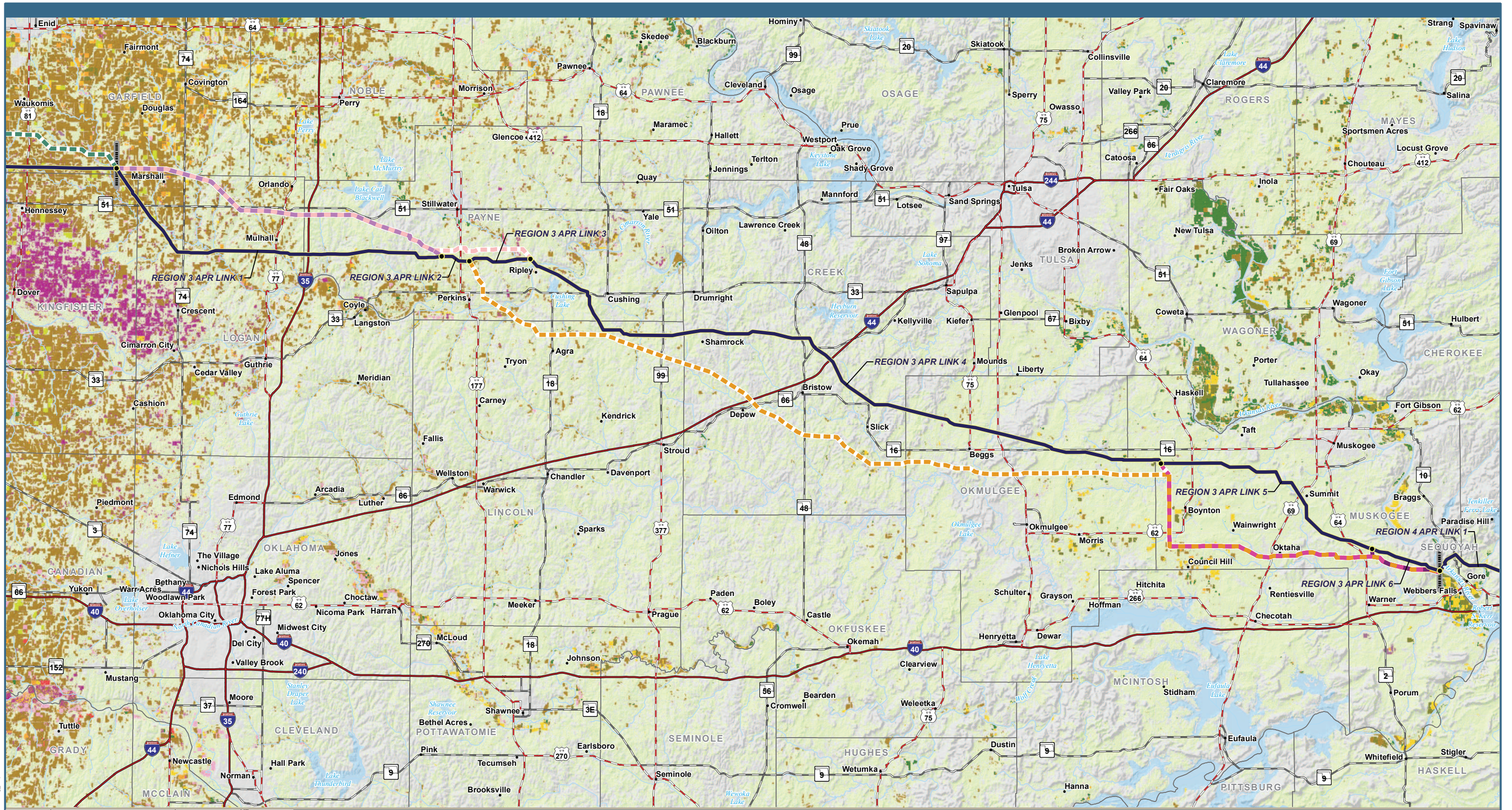
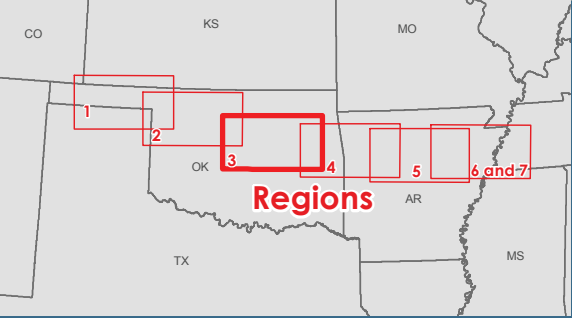


Figure 3.2-1b: Cropland in Region 2



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Project Features

- HVDC Applicant Proposed Route (APR)
- Link Node
- Region Break Line

Region 2 HVDC Alternative Routes

- AR 2-B

Region 3 HVDC Alternative Routes

- AR 3-A
- AR 3-B
- AR 3-C
- AR 3-D
- AR 3-E

USDA Cropland

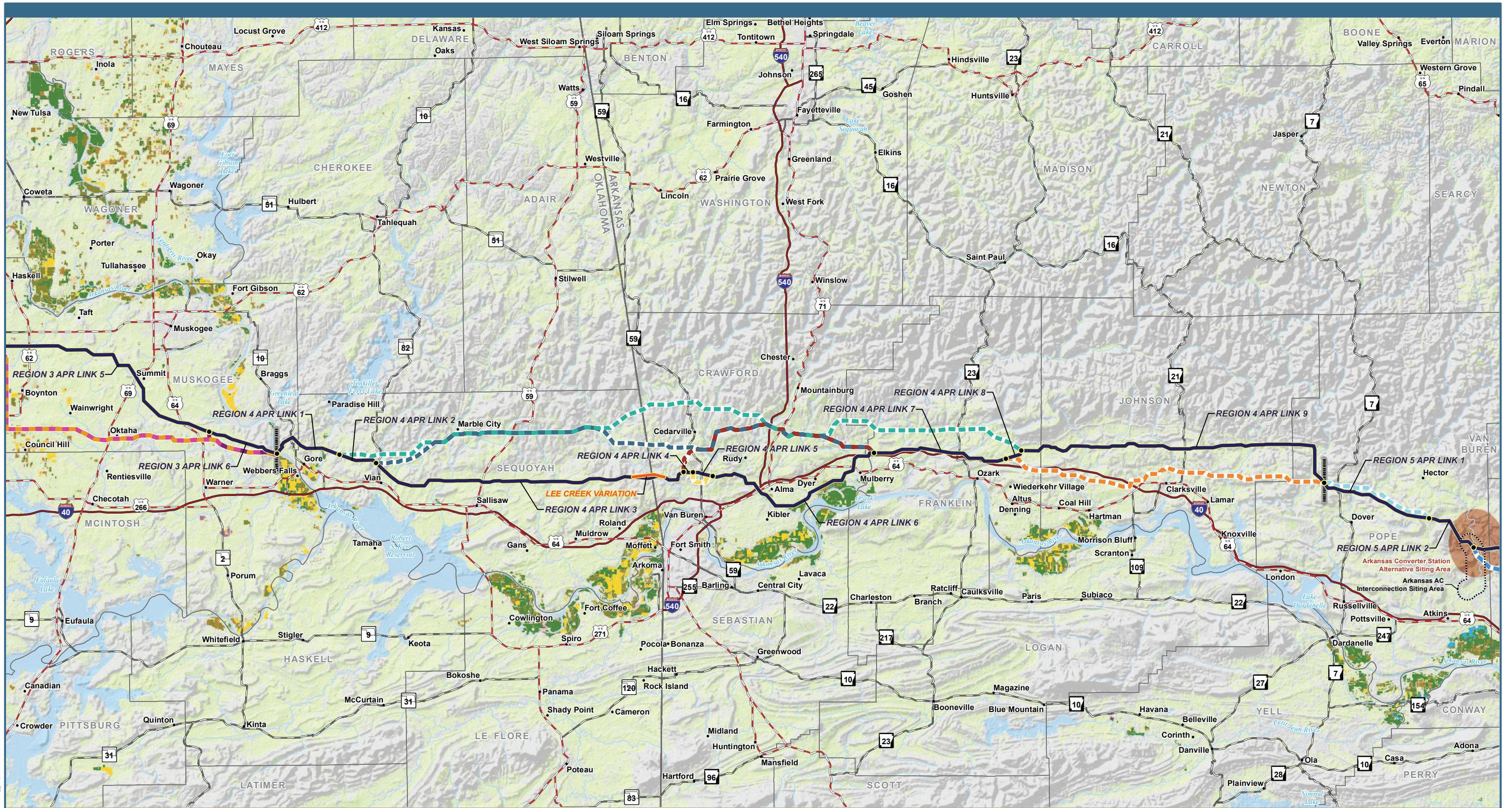
- Alfalfa
- Barley
- Barren
- Canola
- Clover/Wildflowers
- Corn
- Cotton
- Dbl Crop Barley/Soybeans
- Dbl Crop Corn/Soybeans
- Dbl Crop Soybeans/Oats
- Dbl Crop WinWh/Corn
- Dbl Crop WinWh/Cotton
- Dbl Crop WinWh/Sorghum
- Dbl Crop WinWh/Soybeans
- Not Cropland
- Grass/Pasture
- Herbs
- Millet
- Oats
- Other Crops
- Peanuts
- Peas
- Pecans
- Rye
- Shrubland
- Sorghum
- Soybeans
- Sweet Corn
- Triticale
- Vetch
- Watermelons
- Winter Wheat

Note: Routes shown with representative lines not indicative of corridor or ROW widths

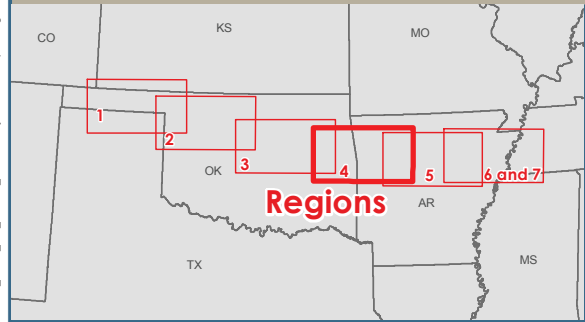
Data Sources: USDA Cropland (NASS 2013)

Plains & Eastern EIS

Figure 3.2-1c: Cropland in Region 3



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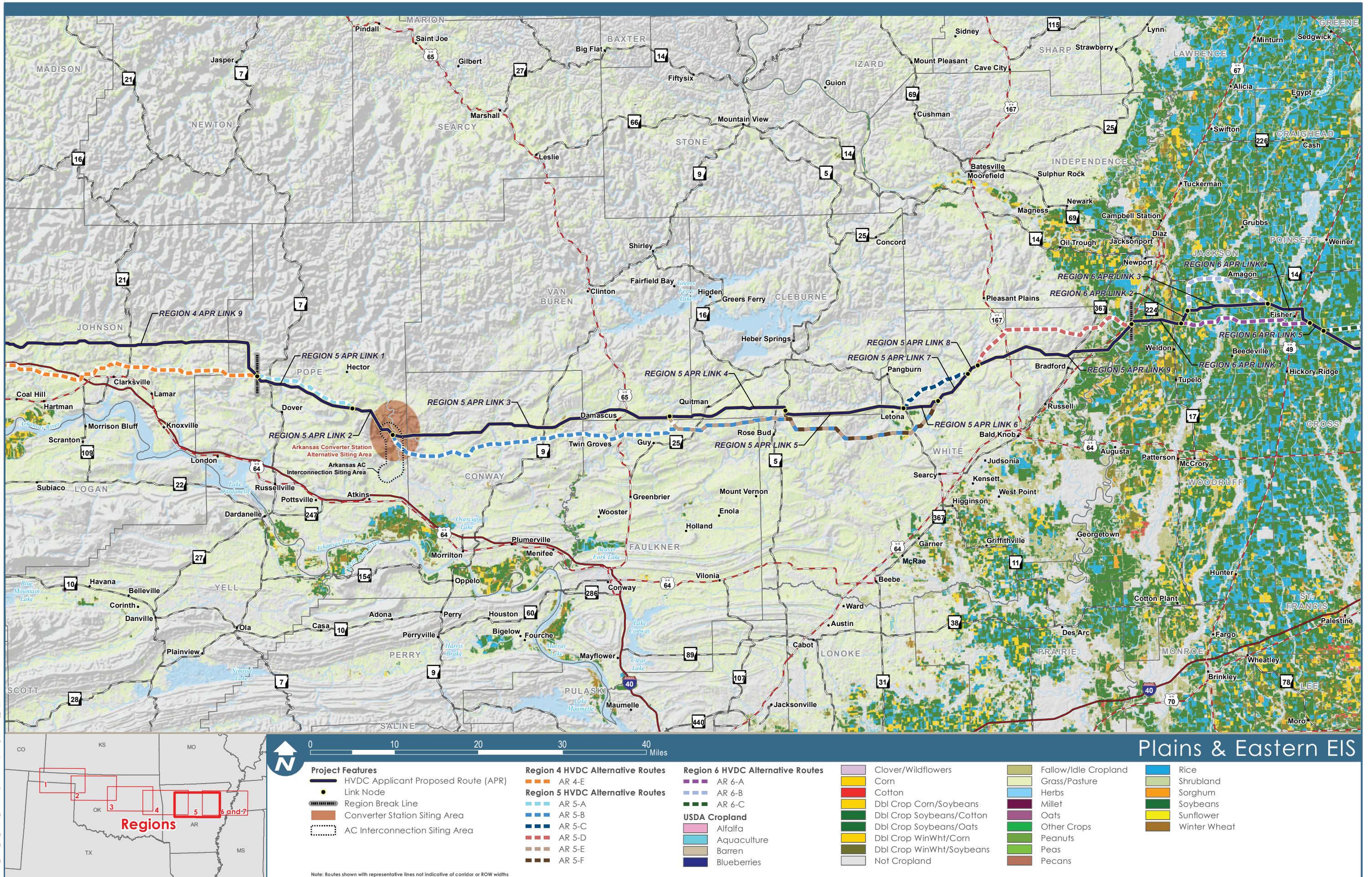
Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> HVDC Applicant Proposed Route (APR) Link Node Region Break Line Converter Station Siting Area Lee Creek Variation AC Interconnection Siting Area 	<p>Region 3 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 3-C AR 3-D AR 3-E <p>Region 4 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 4-A AR 4-B AR 4-C AR 4-D AR 4-E 	<p>Region 5 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 5-A AR 5-B <p>USDA Cropland</p> <ul style="list-style-type: none"> Alfalfa Barley Barren Canola Clover/Wildflowers 	<ul style="list-style-type: none"> Corn Dbl Crop Corn/Soybeans Dbl Crop Soybeans/Oats Dbl Crop WinWht/Corn Dbl Crop WinWht/Sorghum Dbl Crop WinWht/Soybeans Not Cropland Dry Beans Fallow/Idle Cropland 	<ul style="list-style-type: none"> Grapes Grass/Pasture Herbs Millet Oats Other Crops Peaches Peanuts Pecans 	<ul style="list-style-type: none"> Rice Rye Shrubland Sorghum Soybeans Sweet Corn Triticale Watermelons Winter Wheat
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Note: Routes shown with representative lines not indicative of corridor or ROW widths

Data Sources: USDA Cropland (NASS 2013)

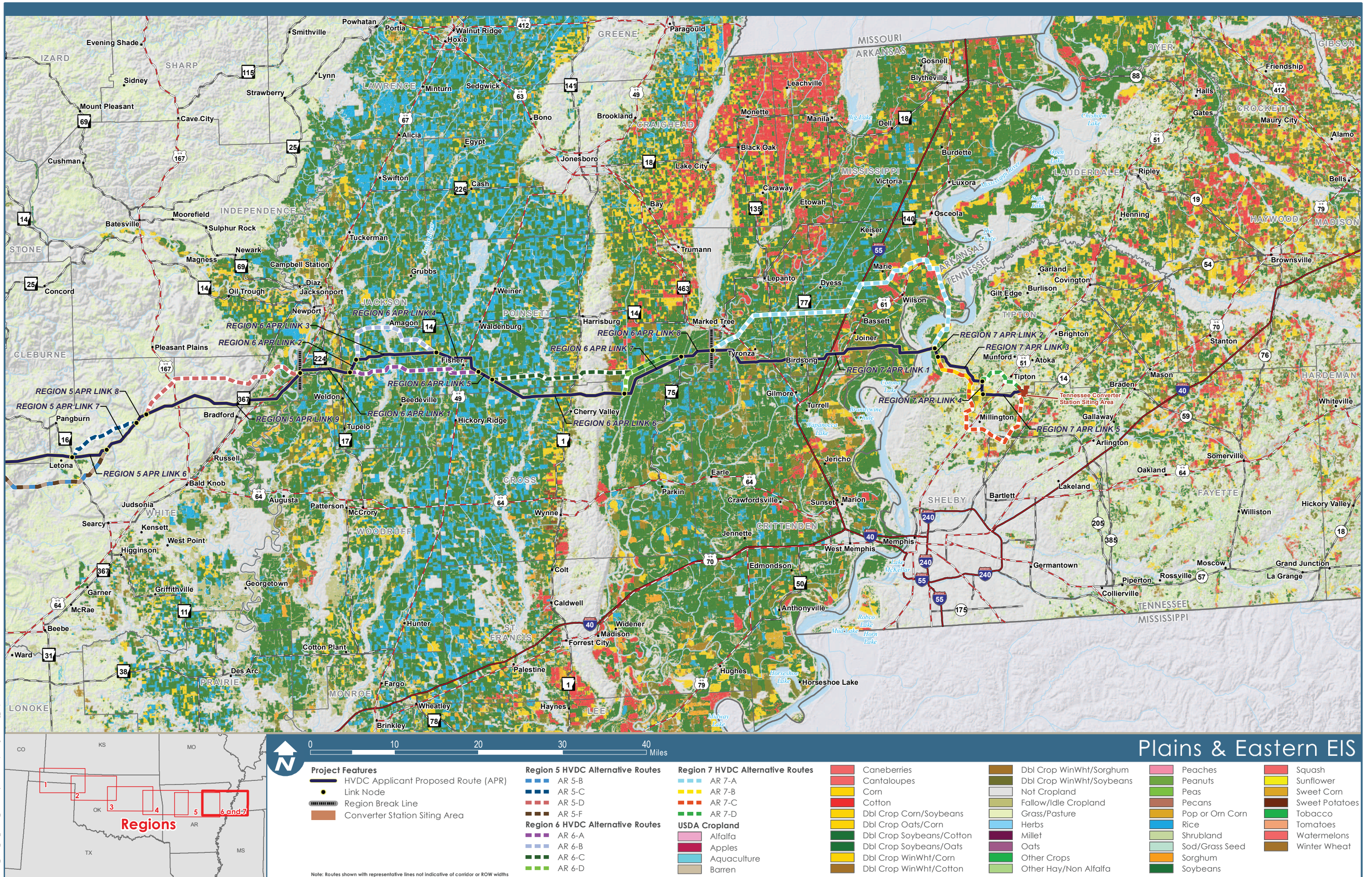
Figure 3.2-1d: Cropland in Region 4



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Data Sources: USDA Cropland (NASS 2013)

Figure 3.2-1e: Cropland in Region 5



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Data Sources: USDA Cropland (NASS 2013)

Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> HVDC Applicant Proposed Route (APR) Link Node Region Break Line Converter Station Siting Area 	<p>Region 5 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 5-B AR 5-C AR 5-D AR 5-F <p>Region 6 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 6-A AR 6-B AR 6-C AR 6-D 	<p>Region 7 HVDC Alternative Routes</p> <ul style="list-style-type: none"> AR 7-A AR 7-B AR 7-C AR 7-D <p>USDA Cropland</p> <ul style="list-style-type: none"> Alfalfa Apples Aquaculture Barren 	<ul style="list-style-type: none"> Caneberries Cantaloupes Corn Cotton Dbl Crop Corn/Soybeans Dbl Crop Oats/Corn Dbl Crop Soybeans/Cotton Dbl Crop Soybeans/Oats Dbl Crop WinWht/Corn Dbl Crop WinWht/Cotton 	<ul style="list-style-type: none"> Dbl Crop WinWht/Soybeans Not Cropland Fallow/Idle Cropland Grass/Pasture Herbs Millet Oats Other Crops Other Hay/Non Alfalfa 	<ul style="list-style-type: none"> Peaches Peanuts Peas Pecans Pop or Orm Corn Rice Shrubland Sod/Grass Seed Soybeans 	<ul style="list-style-type: none"> Squash Sunflower Sweet Corn Sweet Potatoes Tobacco Tomatoes Watermelons Winter Wheat
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Note: Routes shown with representative lines not indicative of corridor or ROW widths

Figure 3.2-1f: Cropland in Regions 6 & 7

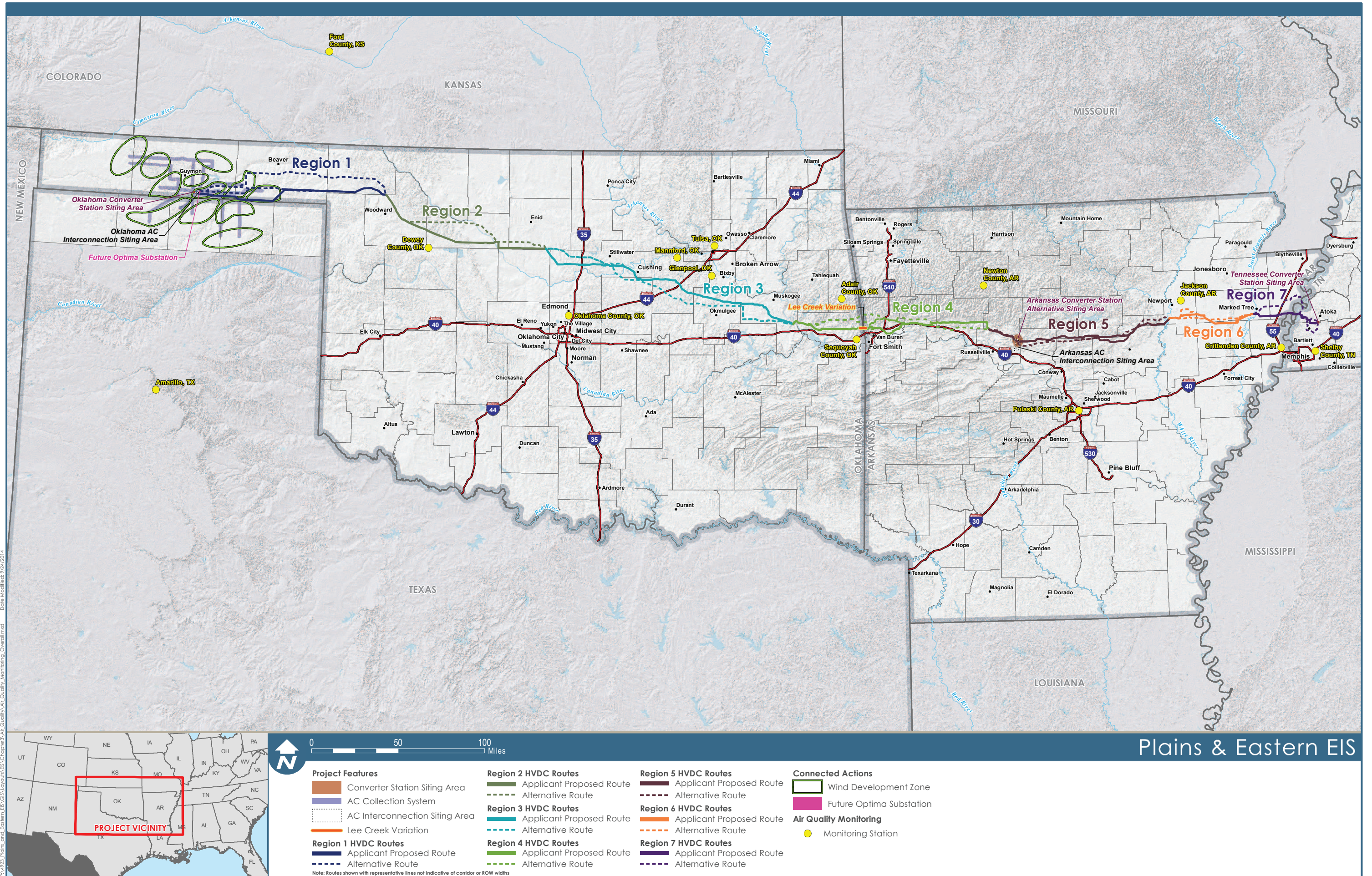
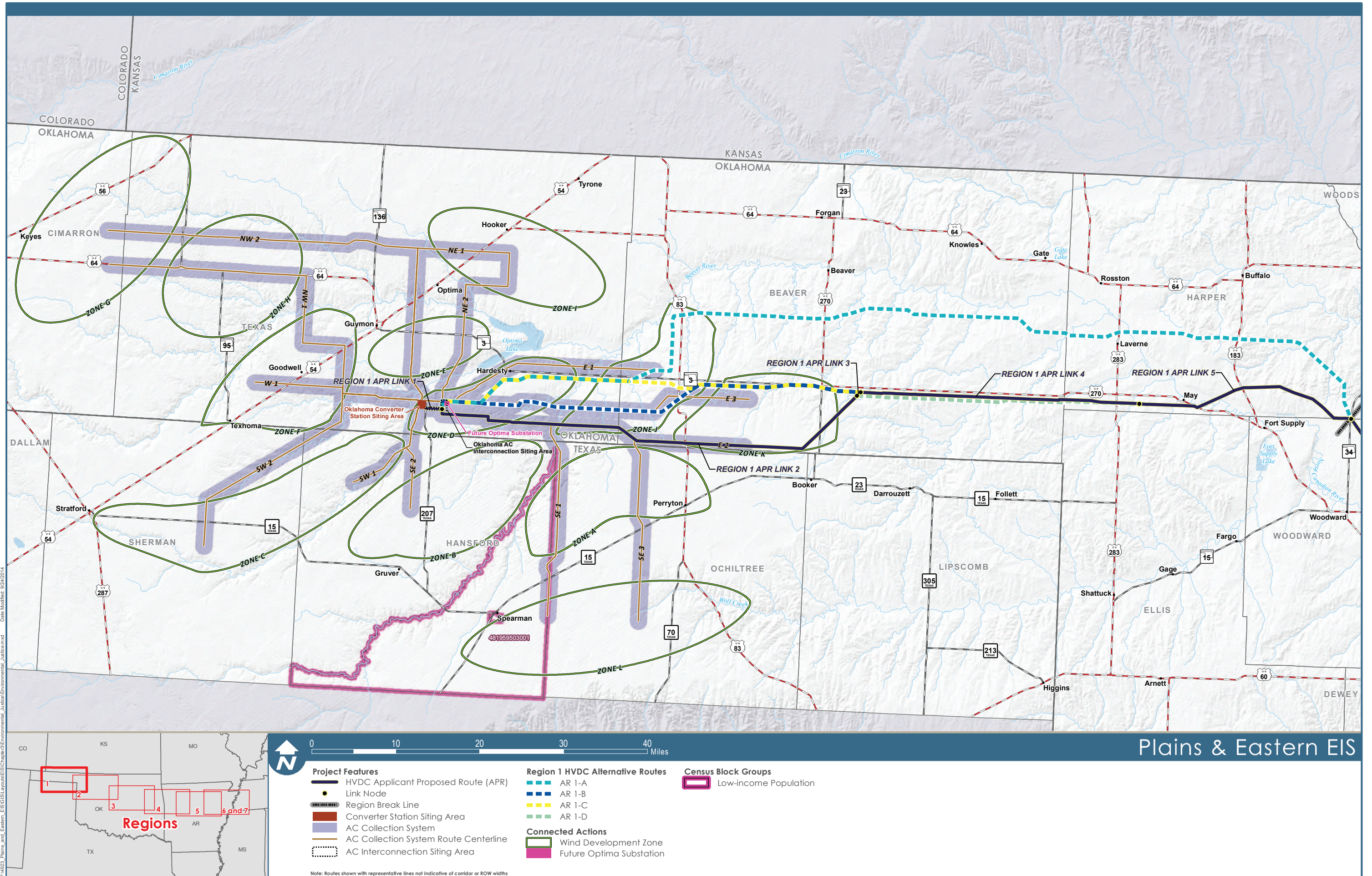
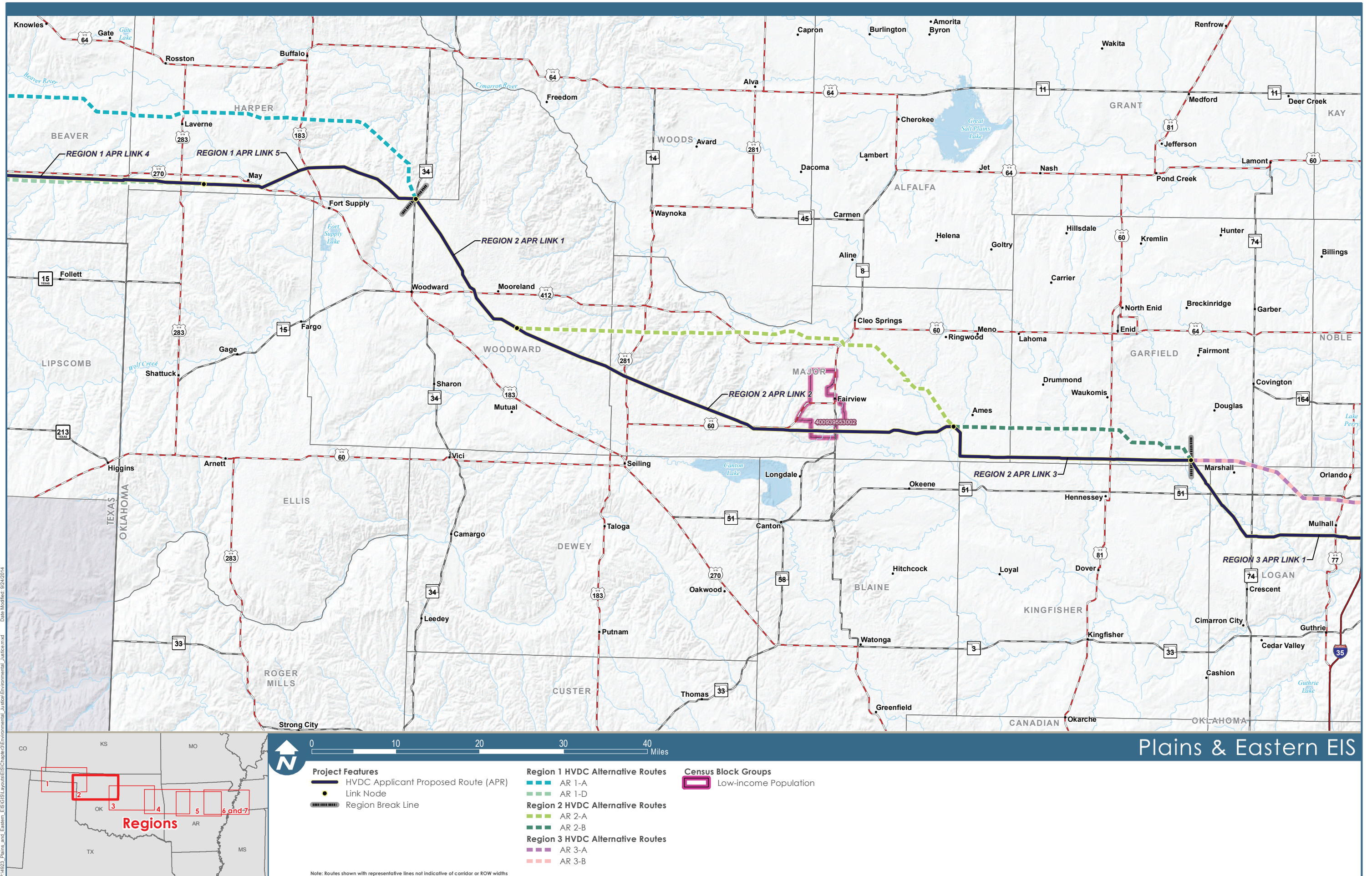


Figure 3.3-1: Air Quality Monitoring Stations



Data Sources: Census Block Groups (USCB 2011)

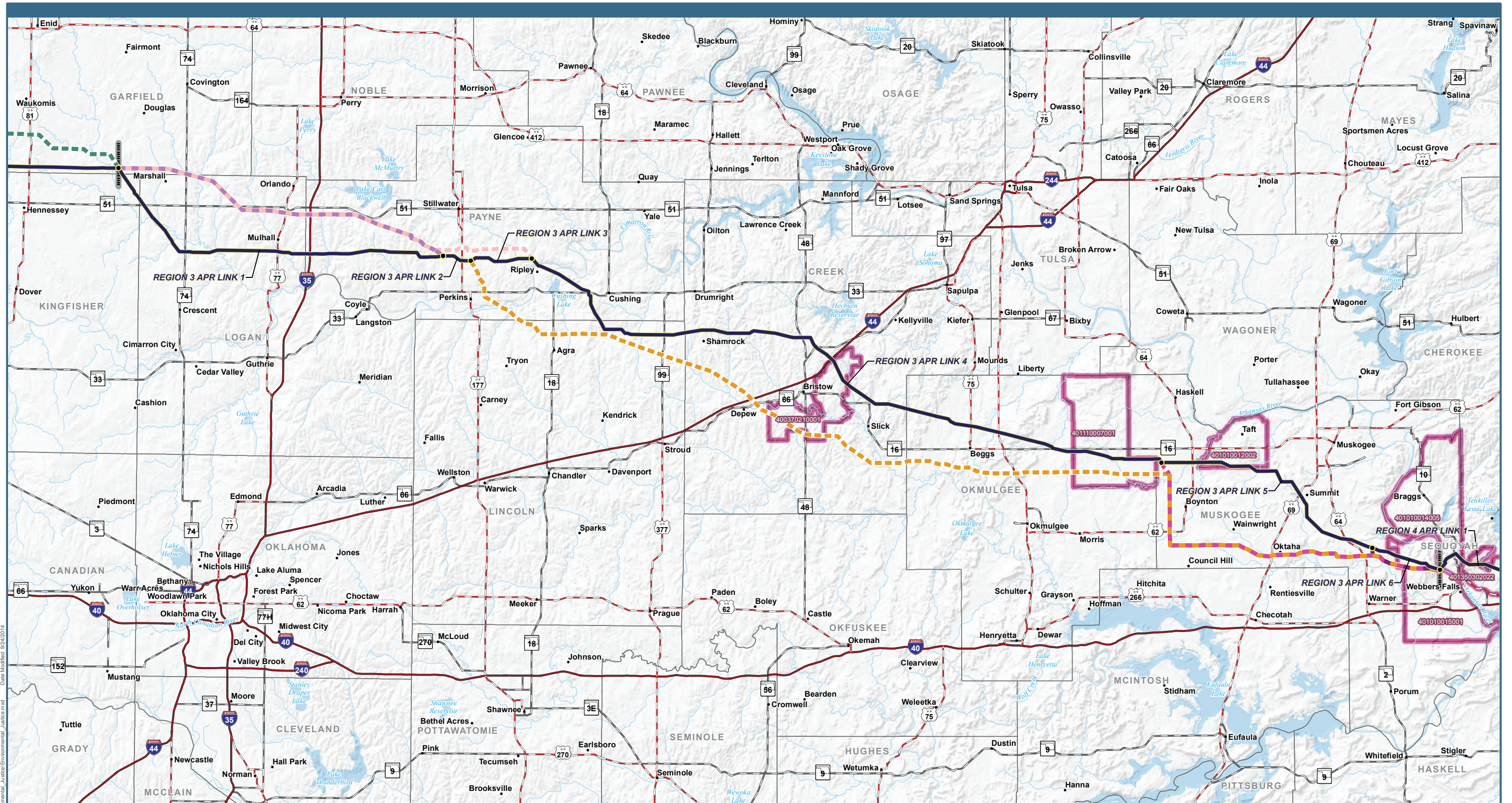
Figure 3.5-1a: Low-income Populations in Region 1



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Data Sources: Census Block Groups (USCB 2011)

Figure 3.5-1b: Low-income Populations in Region 2



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Project Features

- HVDC Applicant Proposed Route (APR)
- Link Node
- Region Break Line

Region 2 HVDC Alternative Routes

- AR 2-B

Region 3 HVDC Alternative Routes

- AR 3-A
- AR 3-B
- AR 3-C
- AR 3-D
- AR 3-E

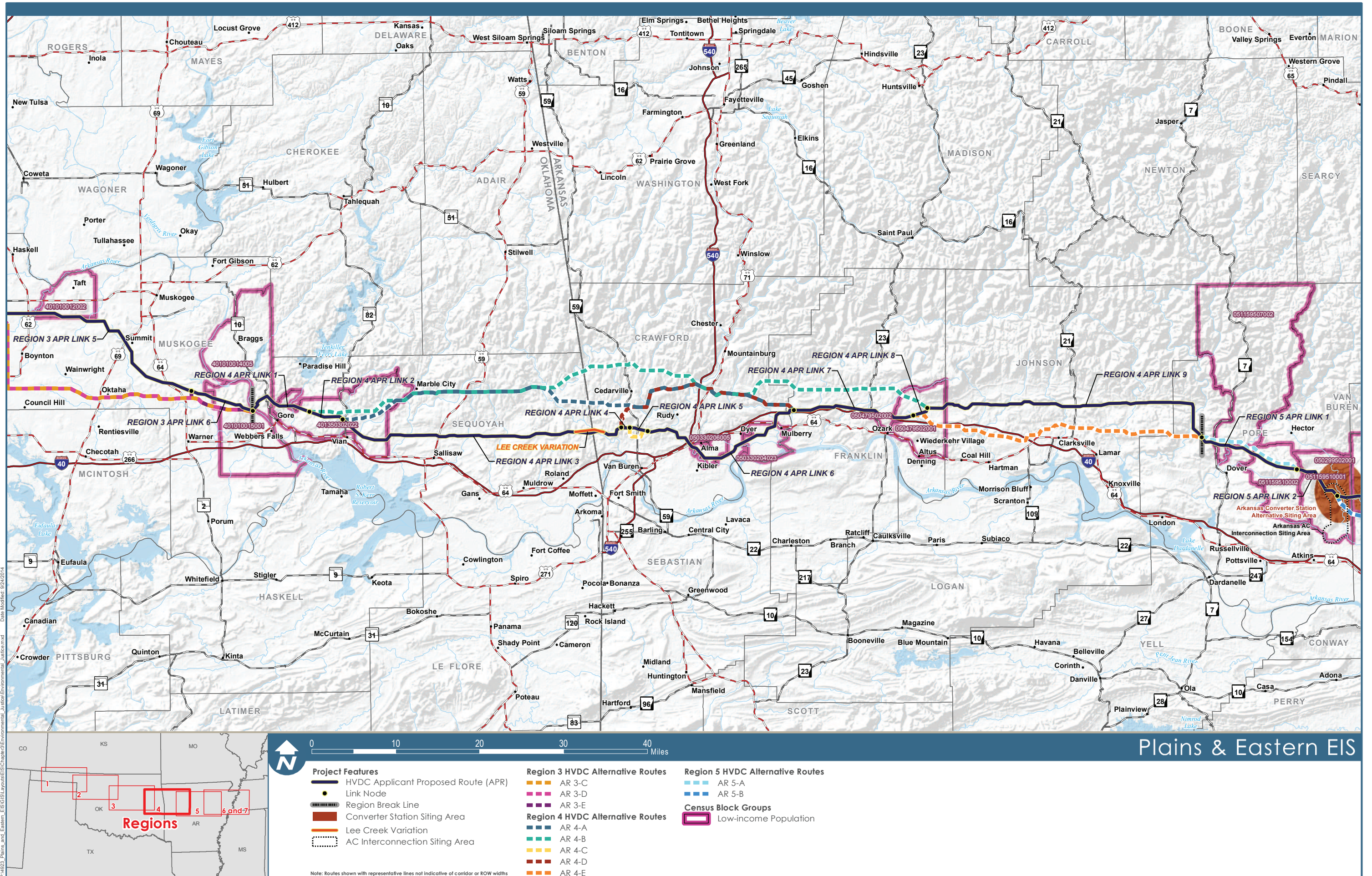
Census Block Groups

- Low-income Population

Note: Routes shown with representative lines not indicative of corridor or ROW widths

Data Sources: Census Block Groups (USCB 2011)

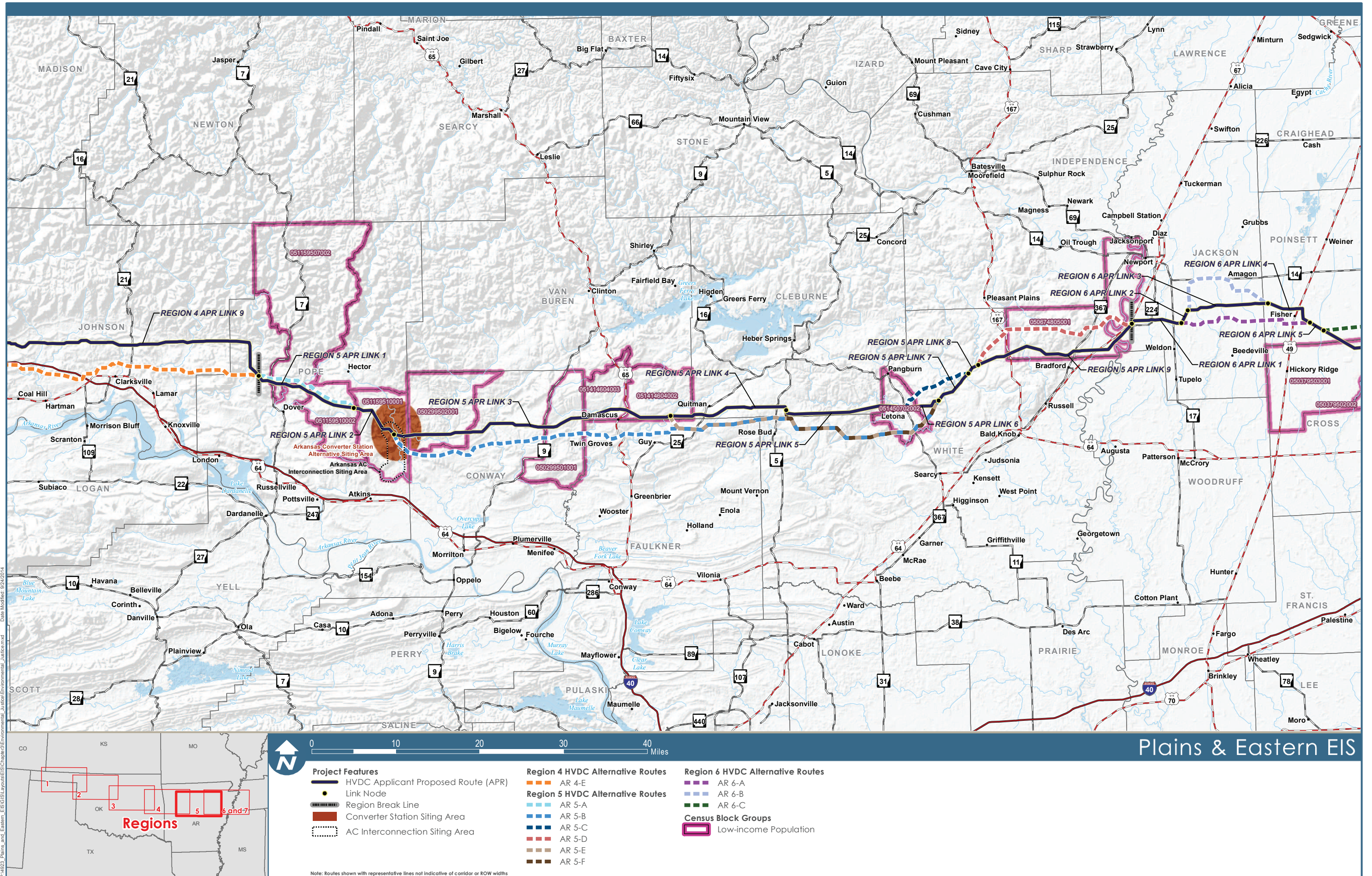
Figure 3.5-1c: Low-income Populations in Region 3



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 Date Modified: 9/24/2014

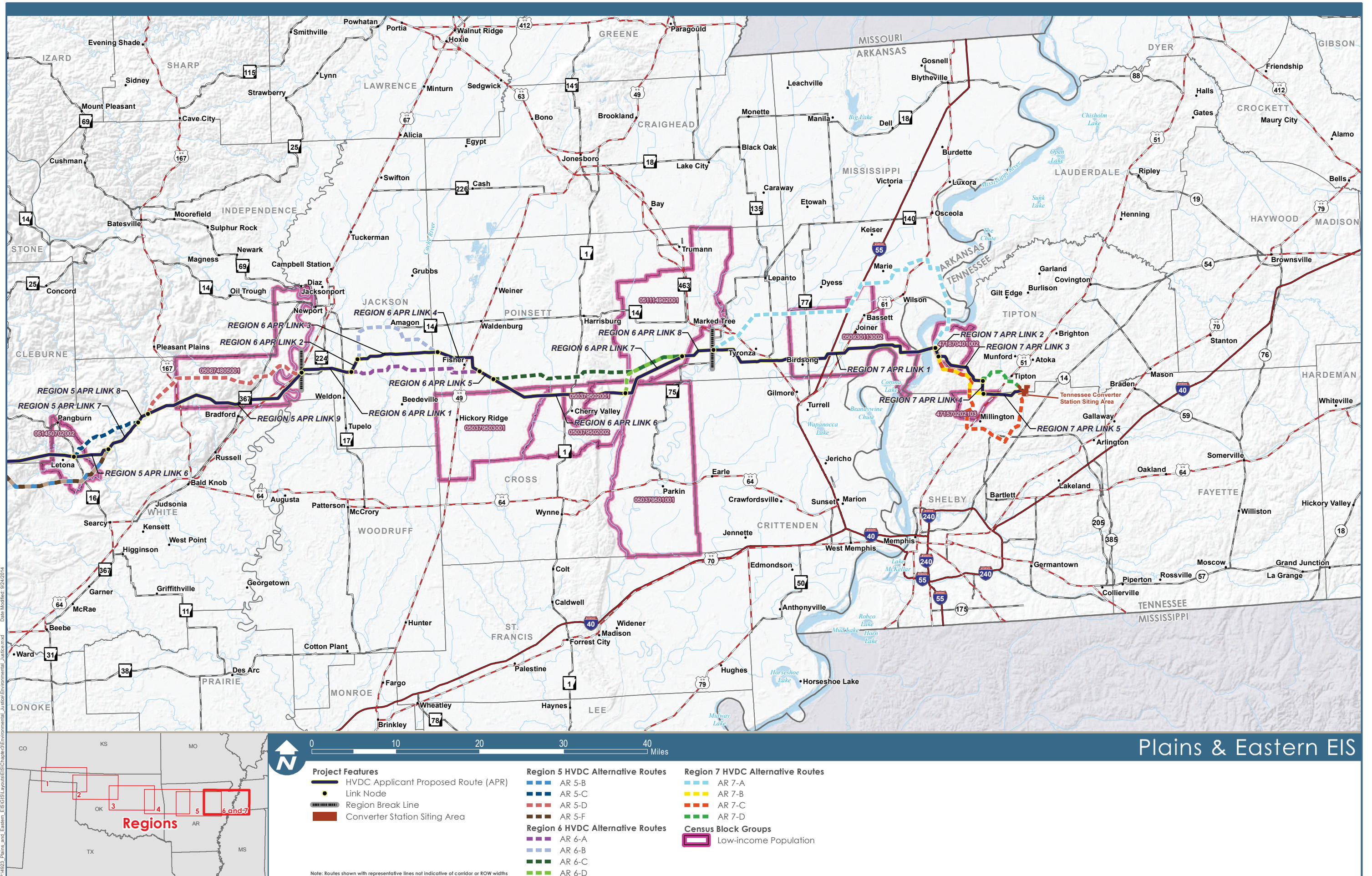
Data Sources: Census Block Groups (USCB 2011)

Figure 3.5-1d: Low-income Populations in Region 4



Data Sources: Census Block Groups (USCB 2011)

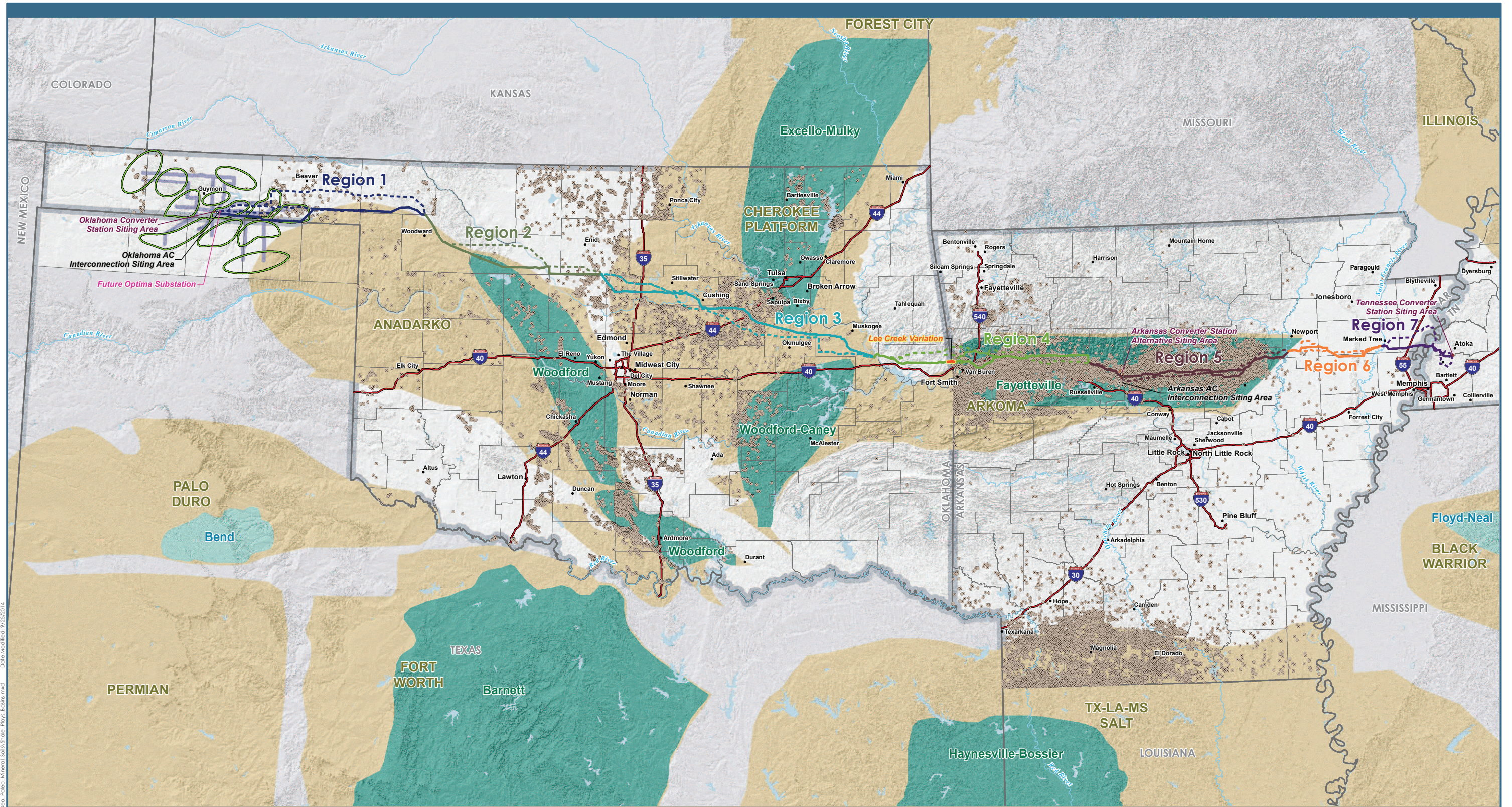
Figure 3.5-1e: Low-income Populations in Region 5



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Data Sources: Census Block Groups (USCB 2011)

Figure 3.5-1f: Low-income Populations in Regions 6 & 7



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Project Features

- Converter Station Siting Area
- AC Collection System
- AC Interconnection Siting Area
- Lee Creek Variation
- Region 1 HVDC Routes**
- Applicant Proposed Route
- Alternative Route

Region 2 HVDC Routes

- Applicant Proposed Route
- Alternative Route
- Region 3 HVDC Routes**
- Applicant Proposed Route
- Alternative Route
- Region 4 HVDC Routes**
- Applicant Proposed Route
- Alternative Route

Region 5 HVDC Routes

- Applicant Proposed Route
- Alternative Route
- Region 6 HVDC Routes**
- Applicant Proposed Route
- Alternative Route
- Region 7 HVDC Routes**
- Applicant Proposed Route
- Alternative Route

Connected Actions

- Wind Development Zone
- Future Optima Substation

Shale Plays

- Shale Basin
- Current Play
- Prospective Play

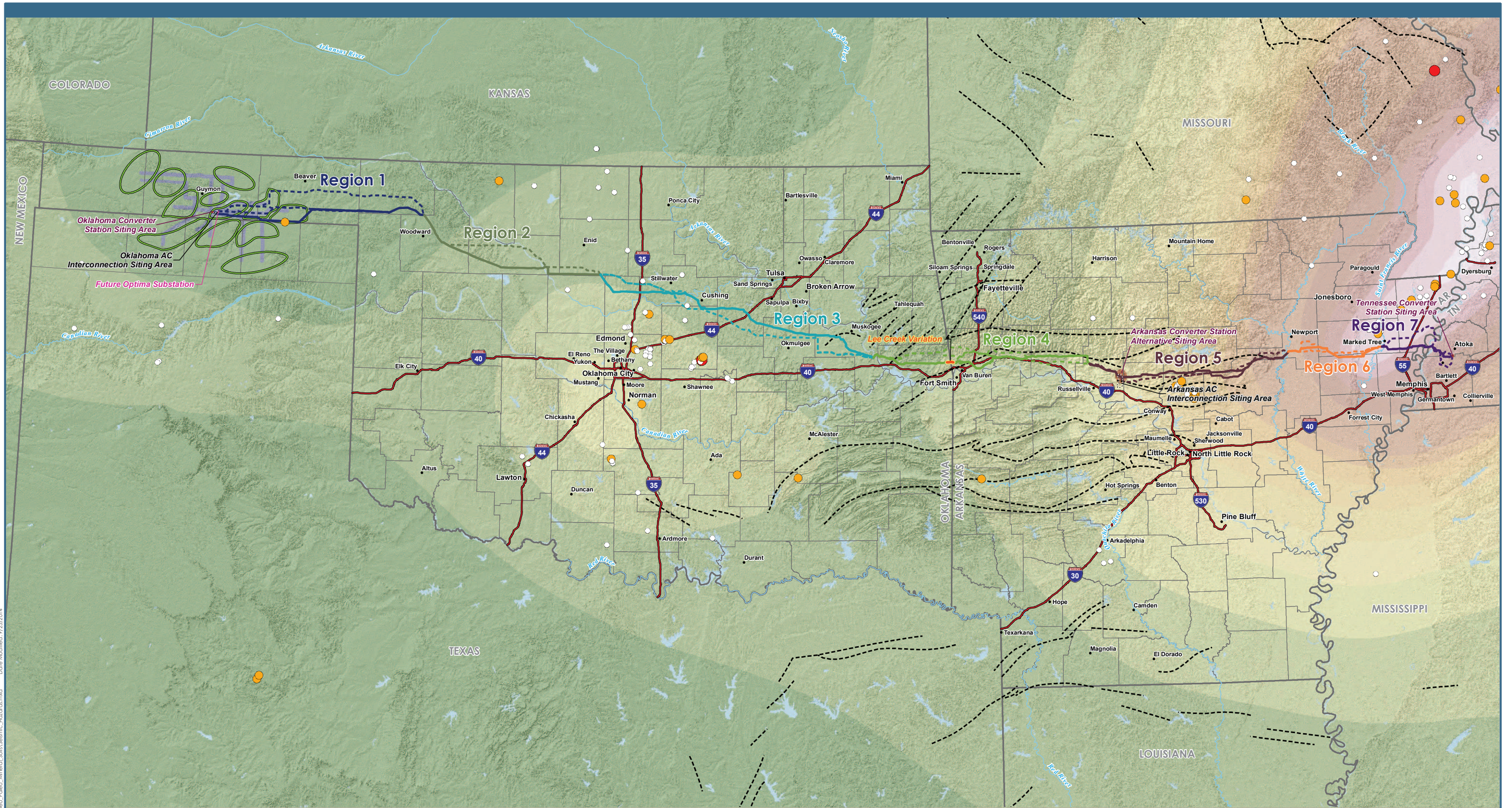
- Oil and Gas Wells**
- Oil and Gas Wells

Note: Routes shown with representative lines not indicative of corridor or ROW widths

Plains & Eastern EIS

Data Sources: Shale Basin (EIA 2011b); Shale Plays (EIA 2011a); Oil and Gas Wells (AOGC 2014, OCC 2013)

Figure 3.6-1: Shale Plays



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 Date Modified: 9/25/2014



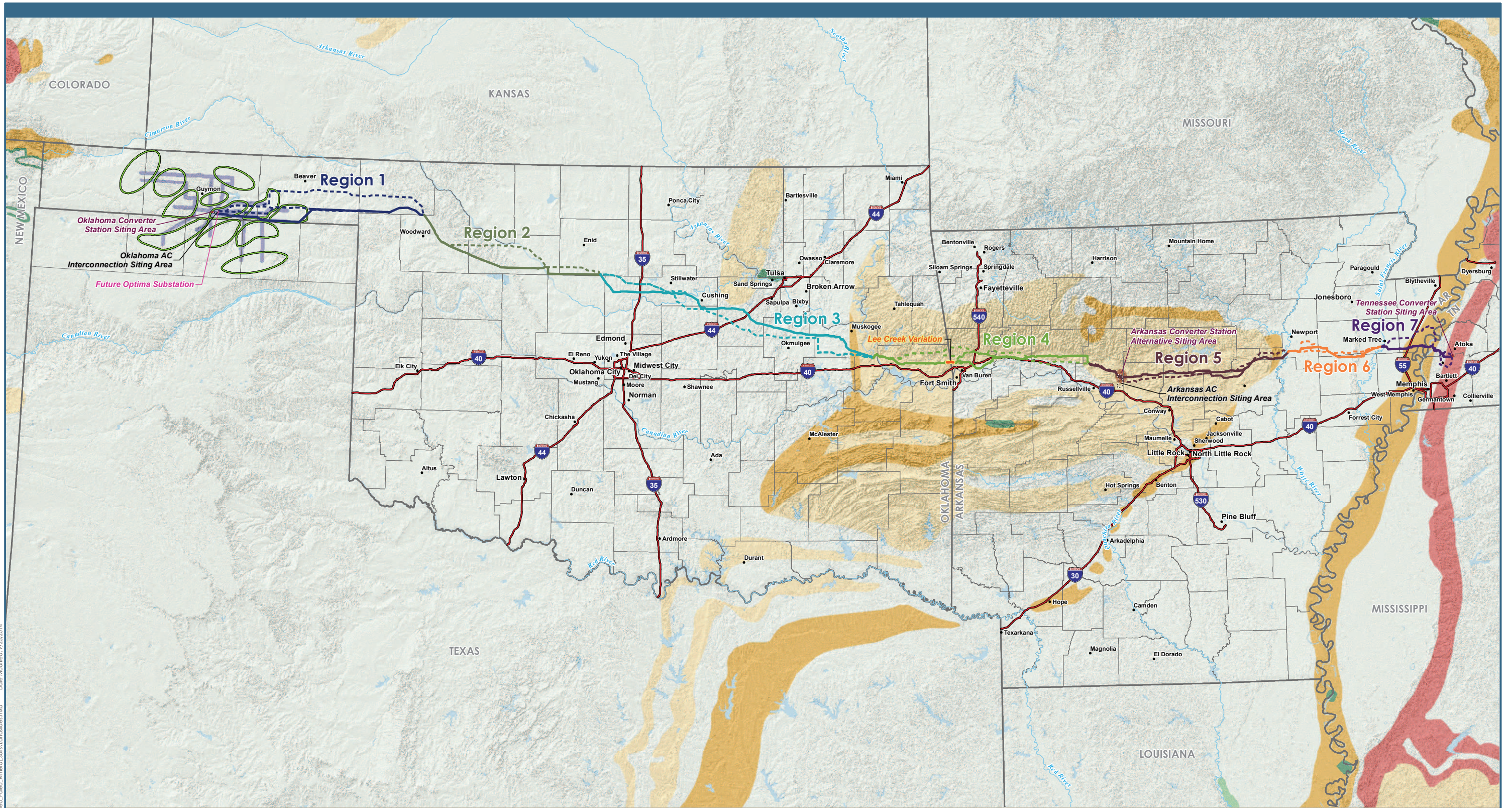
Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> Converter Station Siting Area AC Collection System AC Interconnection Siting Area Lee Creek Variation <p>Region 1 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 2 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 3 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 4 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 5 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 6 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 7 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Connected Actions</p> <ul style="list-style-type: none"> Wind Development Zone Future Optima Substation <p>Earthquakes (Magnitude)</p> <ul style="list-style-type: none"> 3.5 - 3.9 4.0 - 4.9 5.0 and above Fault Line 	<p>Peak Horizontal Acceleration with a 10% Probability of Exceedance in 50 Years (Percent Gravity)</p> <table border="0" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #008000; width: 20px; height: 20px;"></td> <td style="background-color: #FFFF00; width: 20px; height: 20px;"></td> <td style="background-color: #FF8C00; width: 20px; height: 20px;"></td> <td style="background-color: #FF0000; width: 20px; height: 20px;"></td> </tr> <tr> <td>1</td> <td>5</td> <td>9</td> <td>25</td> </tr> <tr> <td style="background-color: #008000; width: 20px; height: 20px;"></td> <td style="background-color: #FFFF00; width: 20px; height: 20px;"></td> <td style="background-color: #FF8C00; width: 20px; height: 20px;"></td> <td style="background-color: #FF0000; width: 20px; height: 20px;"></td> </tr> <tr> <td>2</td> <td>6</td> <td>10</td> <td>30</td> </tr> <tr> <td style="background-color: #008000; width: 20px; height: 20px;"></td> <td style="background-color: #FFFF00; width: 20px; height: 20px;"></td> <td style="background-color: #FF8C00; width: 20px; height: 20px;"></td> <td style="background-color: #FF0000; width: 20px; height: 20px;"></td> </tr> <tr> <td>3</td> <td>7</td> <td>15</td> <td>40</td> </tr> <tr> <td style="background-color: #008000; width: 20px; height: 20px;"></td> <td style="background-color: #FFFF00; width: 20px; height: 20px;"></td> <td style="background-color: #FF8C00; width: 20px; height: 20px;"></td> <td style="background-color: #FF0000; width: 20px; height: 20px;"></td> </tr> <tr> <td>4</td> <td>8</td> <td>20</td> <td></td> </tr> </table>					1	5	9	25					2	6	10	30					3	7	15	40					4	8	20	
1	5	9	25																																	
2	6	10	30																																	
3	7	15	40																																	
4	8	20																																		

Note: Routes shown with representative lines not indicative of corridor or ROW widths

Data Sources: Earthquakes (USGS 2008a); Fault Line (Garrity and Soller 2009); Peak Horizontal Acceleration with 10% Probability of Exceedance in 50 Years (USGS 2008b)

Figure 3.6-2: Seismic Hazards



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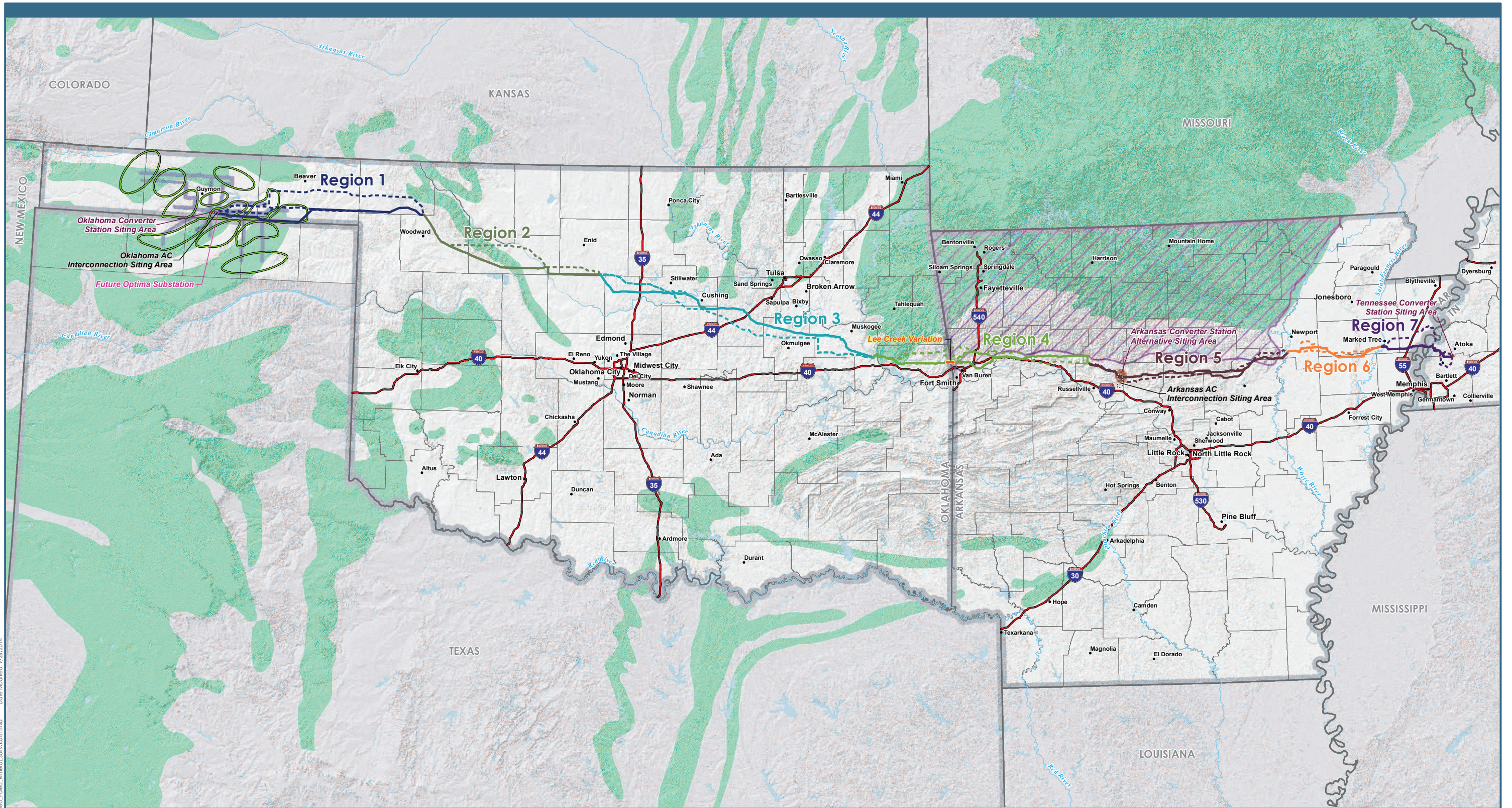
Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> Converter Station Siting Area AC Collection System AC Interconnection Siting Area Lee Creek Variation <p>Region 1 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 2 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 3 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 4 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 5 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 6 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 7 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Connected Actions</p> <ul style="list-style-type: none"> Wind Development Zone Future Optima Substation <p>Landslide Incidence</p> <ul style="list-style-type: none"> High Landslide Incidence (more than 15% of the area is involved in landsliding) Moderate Landslide Incidence (1.5 - 15% of the area is involved in landsliding) Low Landslide Incidence (less than 1.5% of the area is involved in landsliding) 	<p>Landslide Susceptibility/Incidence</p> <ul style="list-style-type: none"> High Susceptibility to Landsliding and Moderate Incidence High Susceptibility to Landsliding and Low Incidence Moderate Susceptibility to Landsliding and Low Incidence
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Note: Routes shown with representative lines not indicative of corridor or ROW widths

Data Sources: Landslide Susceptibility/Incidence (USGS 2001)

Figure 3.6-3: Landslide Incidence & Susceptibility



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0 50 100 Miles

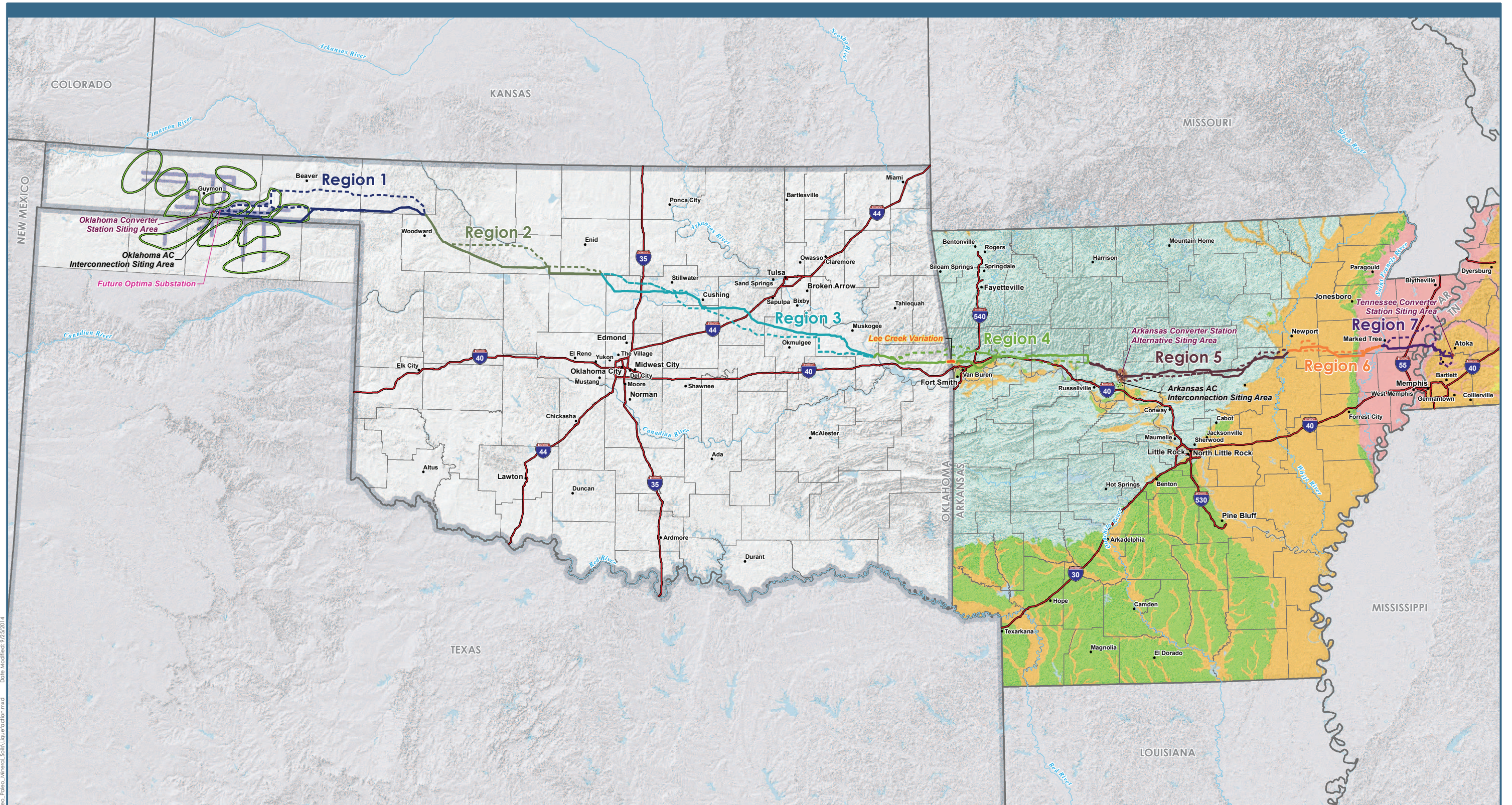
Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> Converter Station Siting Area AC Collection System AC Interconnection Siting Area Lee Creek Variation <p>Region 1 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 2 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 3 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 4 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 5 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 6 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 7 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Connected Actions</p> <ul style="list-style-type: none"> Wind Development Zone Future Optima Substation <p>Karst</p> <ul style="list-style-type: none"> Ozark Mountains Region - USFWS* Areas of Karst - USGS
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* Karst is common throughout the Ozark Mountain Region and more specific karst formation mapping is not available.

Data Sources: Karst [Ozark Mountains Region - USFWS (USFWS 2010); Areas of Karst - USGS (Tobin and Weary 2004)]

Figure 3.6-4: Karst Areas



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Plains & Eastern EIS

<p>Project Features</p> <ul style="list-style-type: none"> Converter Station Siting Area AC Collection System AC Interconnection Siting Area Lee Creek Variation <p>Region 1 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 2 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 3 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 4 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Region 5 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 6 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route <p>Region 7 HVDC Routes</p> <ul style="list-style-type: none"> Applicant Proposed Route Alternative Route 	<p>Connected Actions</p> <ul style="list-style-type: none"> Wind Development Zone Future Optima Substation 						
<p>Liquefaction Susceptibility*</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> Water</td> <td style="width: 50%;"> Moderate</td> </tr> <tr> <td> Very Low</td> <td> High</td> </tr> <tr> <td> Low</td> <td> Very High</td> </tr> </table> <p><small>* Data not available for Oklahoma and Texas</small></p>				 Water	 Moderate	 Very Low	 High	 Low	 Very High
 Water	 Moderate								
 Very Low	 High								
 Low	 Very High								

Note: Routes shown with representative lines not indicative of corridor or ROW widths

Data Sources: Liquefaction Susceptibility (CUSEC 2008)

Figure 3.6-5: Liquefaction Susceptibility