

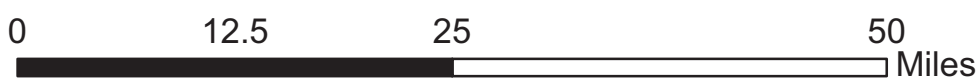
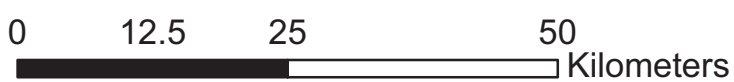
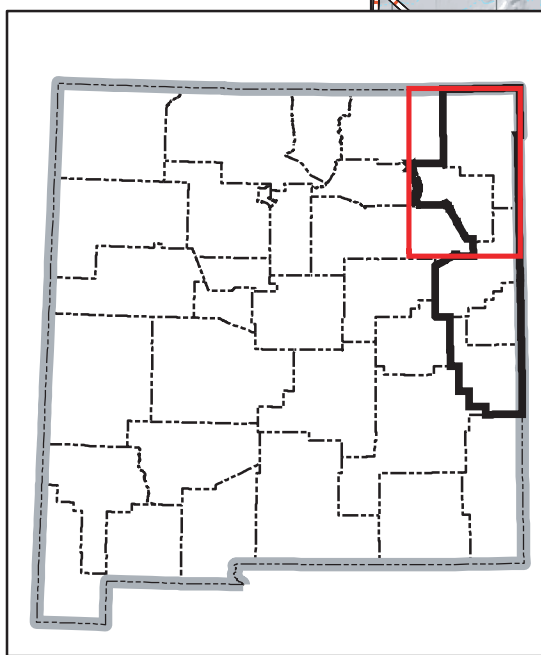
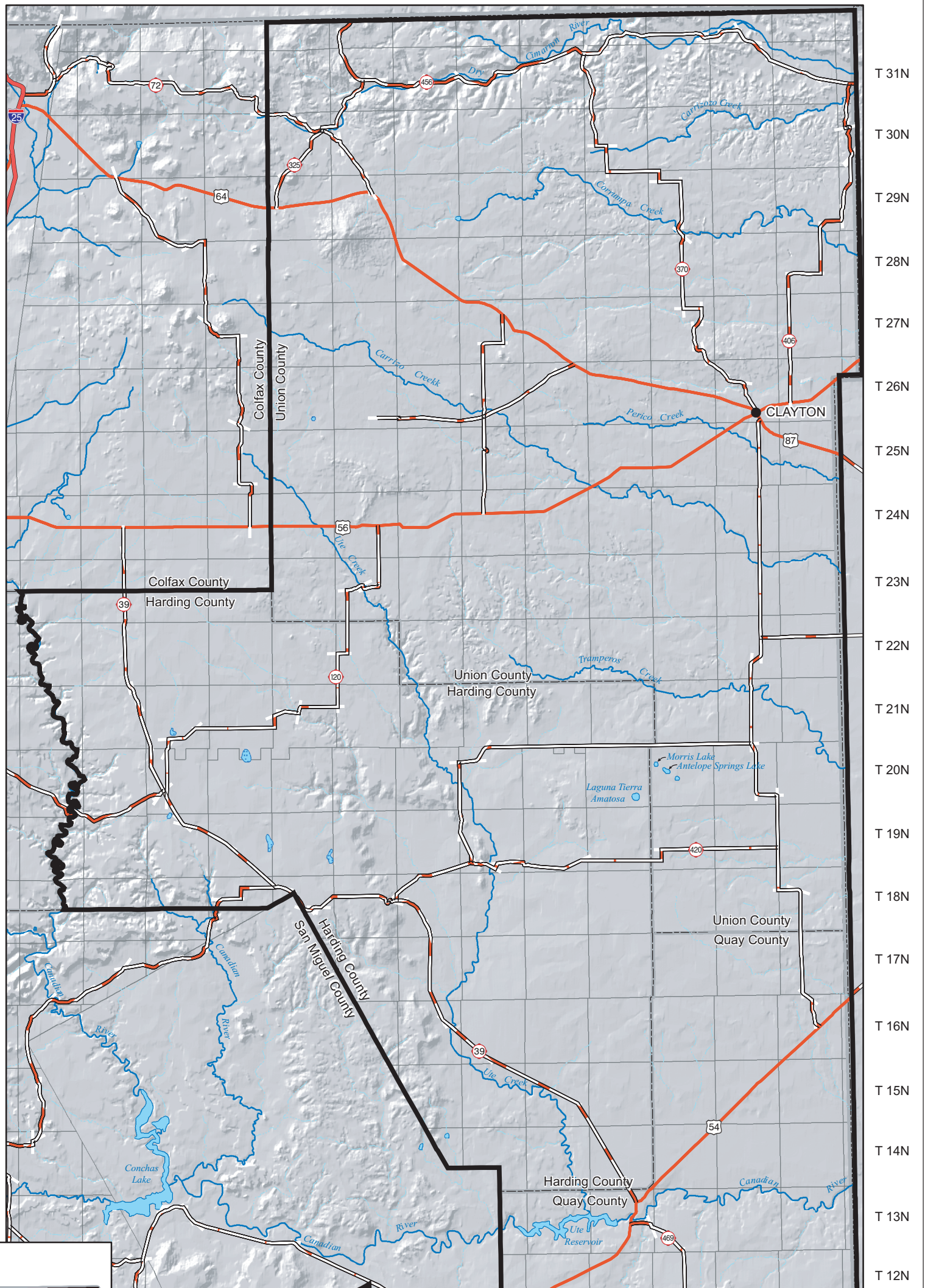
**Appendix A**  
**WRRI Maps**

# Northeast New Mexico Regional Water Plan (Northern Portion) Planning Region

R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

Figure A-1a

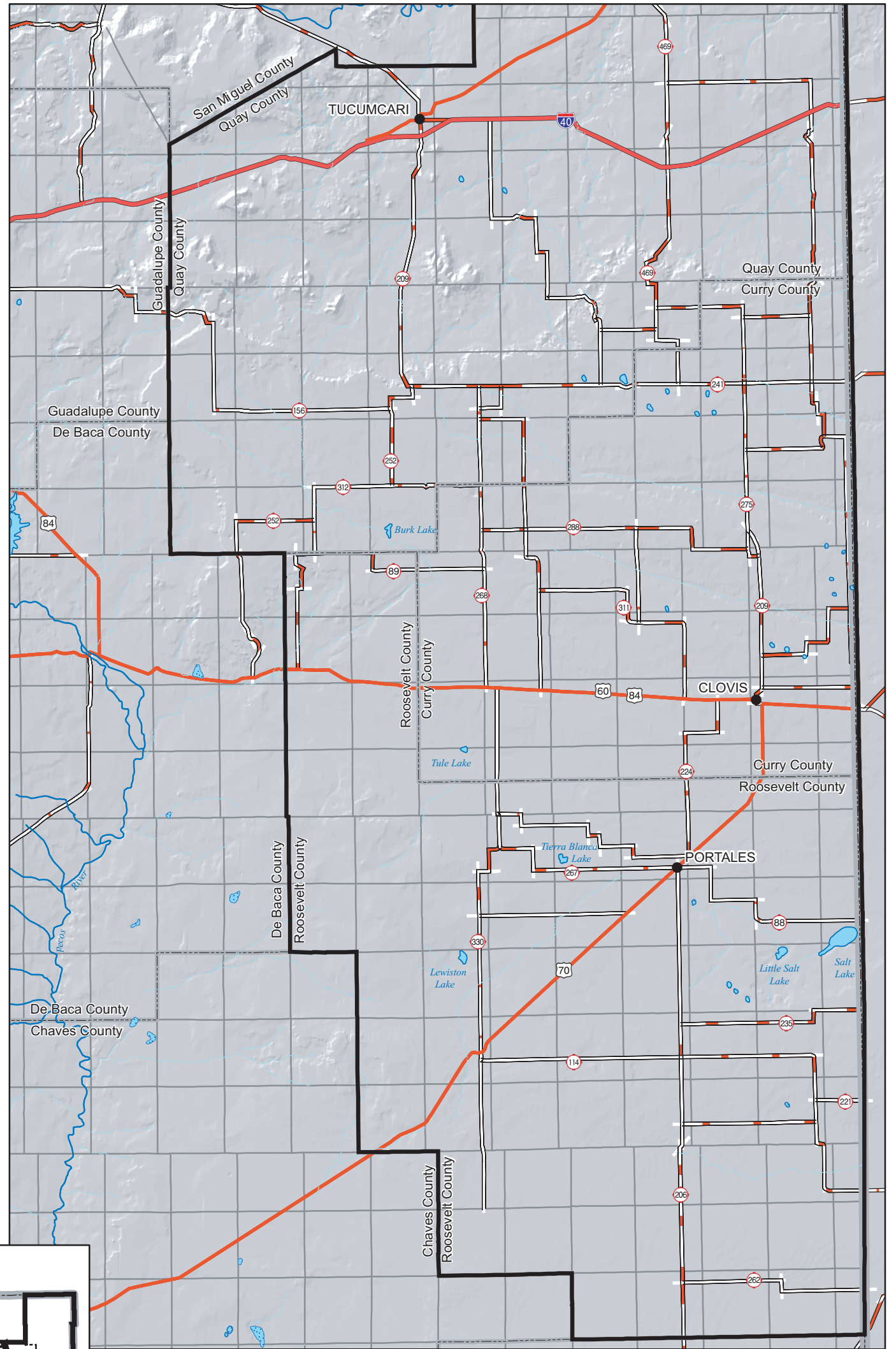
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Planning Region

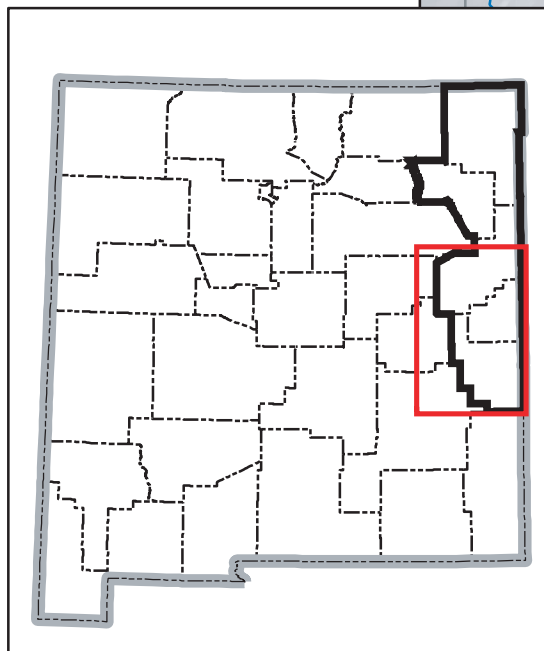
R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ◊ Intermittent water body
- ◊ Perennial water body
- 40 Interstate
- 114 State Road or Highway
- 54 U.S. Highway
- Township/Range



T12N  
T11N  
T10N  
T9N  
T8N  
T7N  
T6N  
T5N  
T4N  
T3N  
T2N  
T1N  
T1S  
T2S  
T3S  
T4S  
T5S  
T6S  
T7S  
T8S



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

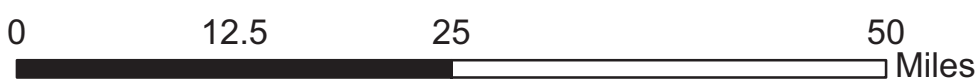
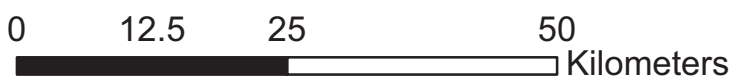


Figure A-1b

# Northeast New Mexico Regional Water Plan (Northern Portion)

## Land Use in the Region

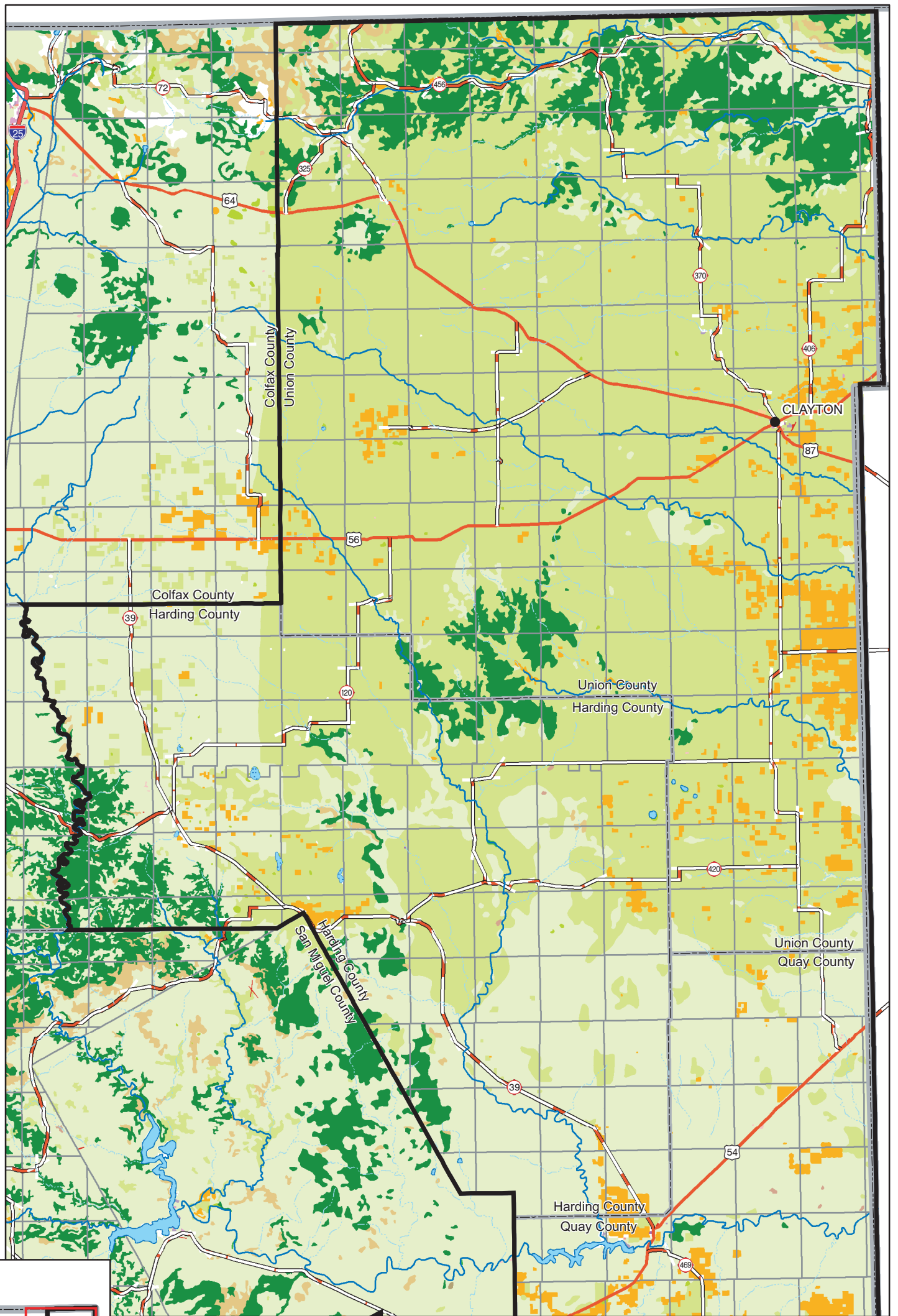
R 24E R 245E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

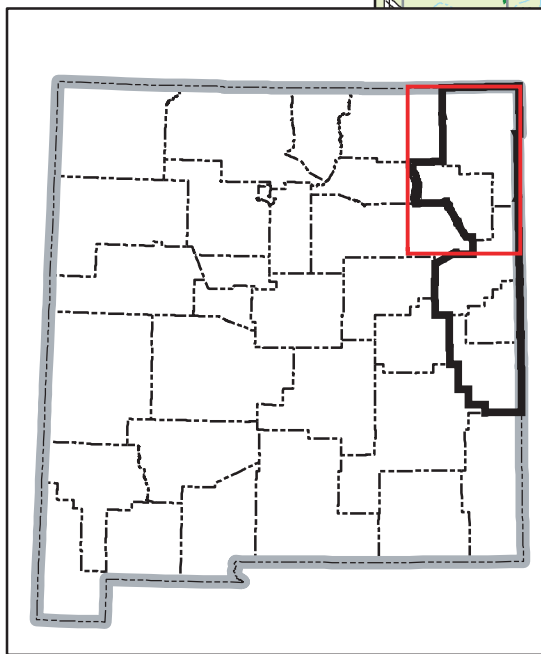
- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Ⓜ Interstate
- Ⓜ State Road or Highway
- Ⓜ U.S. Highway
- Township/Range

**Land Use**

- Bare Exposed Rock
- Dry Salt Flats
- Commercial and Services
- Confined Feeding Operations
- Cropland and Pasture
- Mixed Rangeland
- Herbaceous Rangeland
- Nonforested Wetland
- Forested Wetland
- Deciduous Forest Land
- Evergreen Forest Land
- Mixed Urban or Built-up Land
- Other Agricultural Land
- Other Urban or Built-up Land
- Sandy Areas Other Than Beaches
- Shurb-Brushland Rangeland
- Strip Mines, Quarries, and Gravel Pits
- Transitional Areas
- Transportation, Communications and Utilities



T 31N  
T 30N  
T 29N  
T 28N  
T 27N  
T 26N  
T 25N  
T 24N  
T 23N  
T 22N  
T 21N  
T 20N  
T 19N  
T 18N  
T 17N  
T 16N  
T 15N  
T 14N  
T 13N  
T 12N



Produced by the New Mexico Water Resources Research Institute, May 2005

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. Land use coverage developed by USGS/EPA at 1:250,000 scale.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

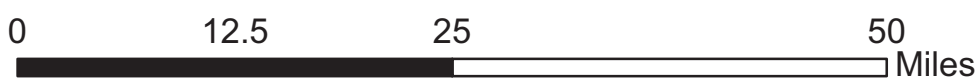
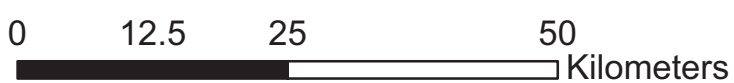


Figure A-2a

# Northeast New Mexico Regional Water Plan (Southern Portion)

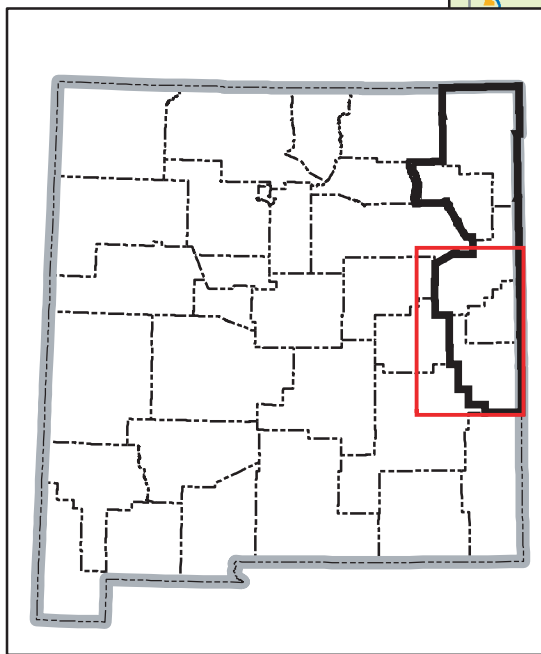
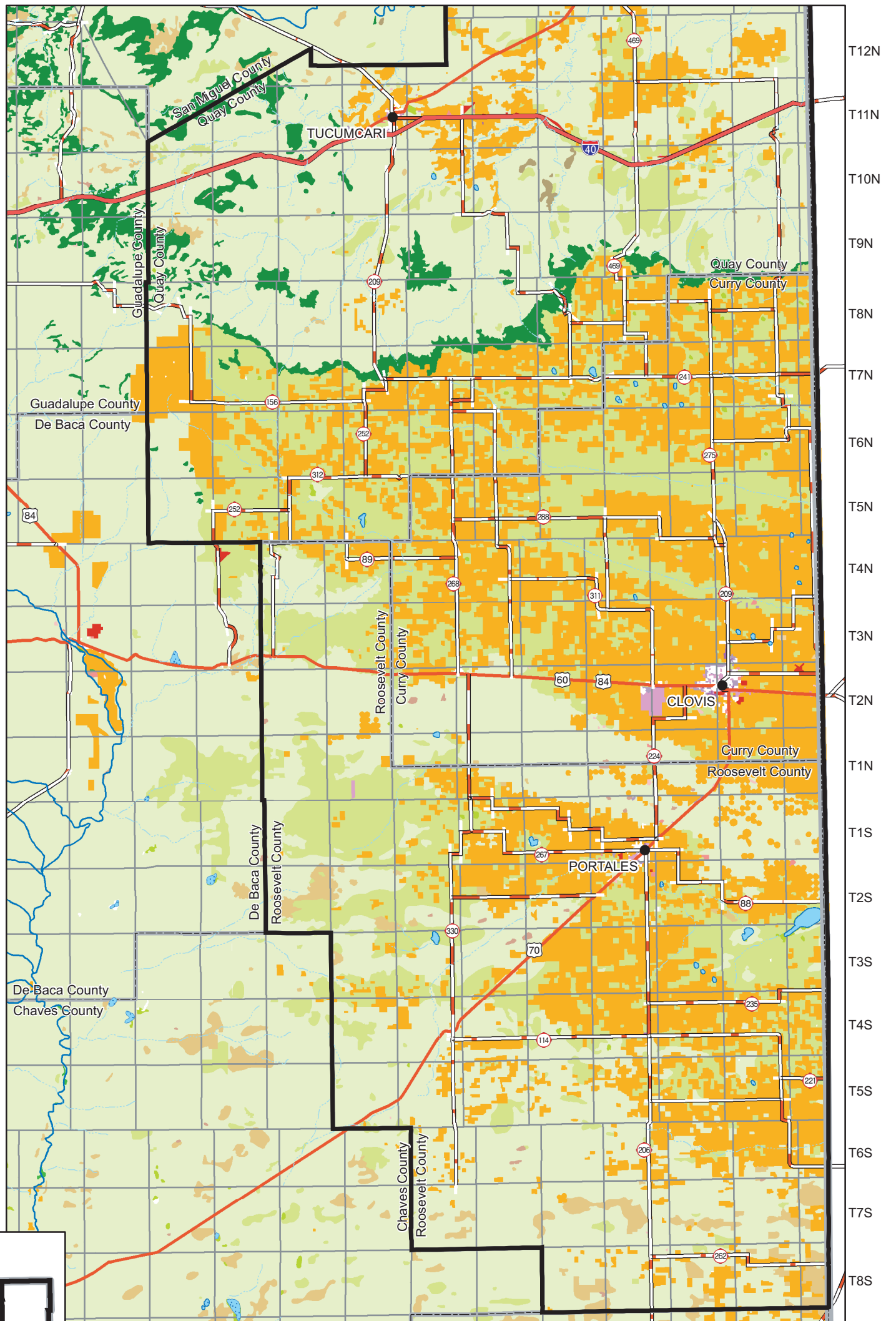
## Land Use in the Region

R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

City or Town  
 Planning Region  
 State Boundary  
 County Boundary  
 Intermittent Stream  
 Perennial River  
 Intermittent water body  
 Perennial water body  
 Interstate  
 State Road or Highway  
 U.S. Highway  
 Township/Range

**Land Use**

- Bare Exposed Rock
- Dry Salt Flats
- Commercial and Services
- Confined Feeding Operations
- Cropland and Pasture
- Mixed Rangeland
- Herbaceous Rangeland
- Nonforested Wetland
- Forested Wetland
- Deciduous Forest Land
- Evergreen Forest Land
- Mixed Urban or Built-up Land
- Other Agricultural Land
- Other Urban or Built-up Land
- Sandy Areas Other Than Beaches
- Shurb-Brushland Rangeland
- Strip Mines, Quarries, and Gravel Pits
- Transitional Areas
- Transportation, Communications and Utilities



0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. Land use coverage developed by USGS/EPA at 1:250,000 scale.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

Figure A-2b

# Northeast New Mexico Regional Water Plan (Northern Portion)

## Land Ownership in Region

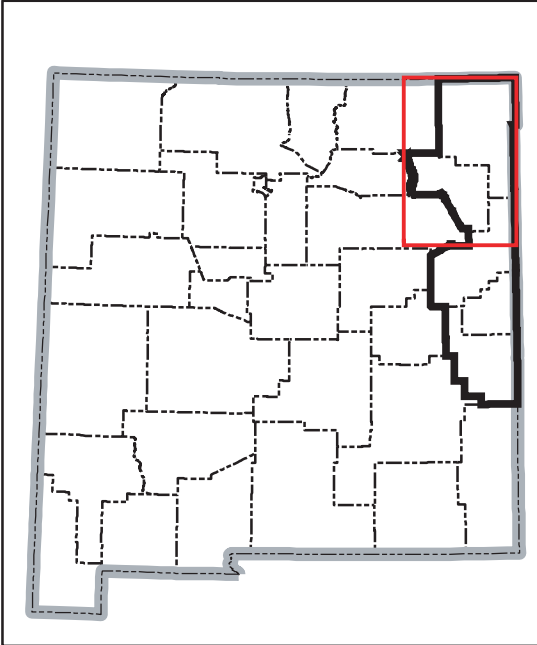
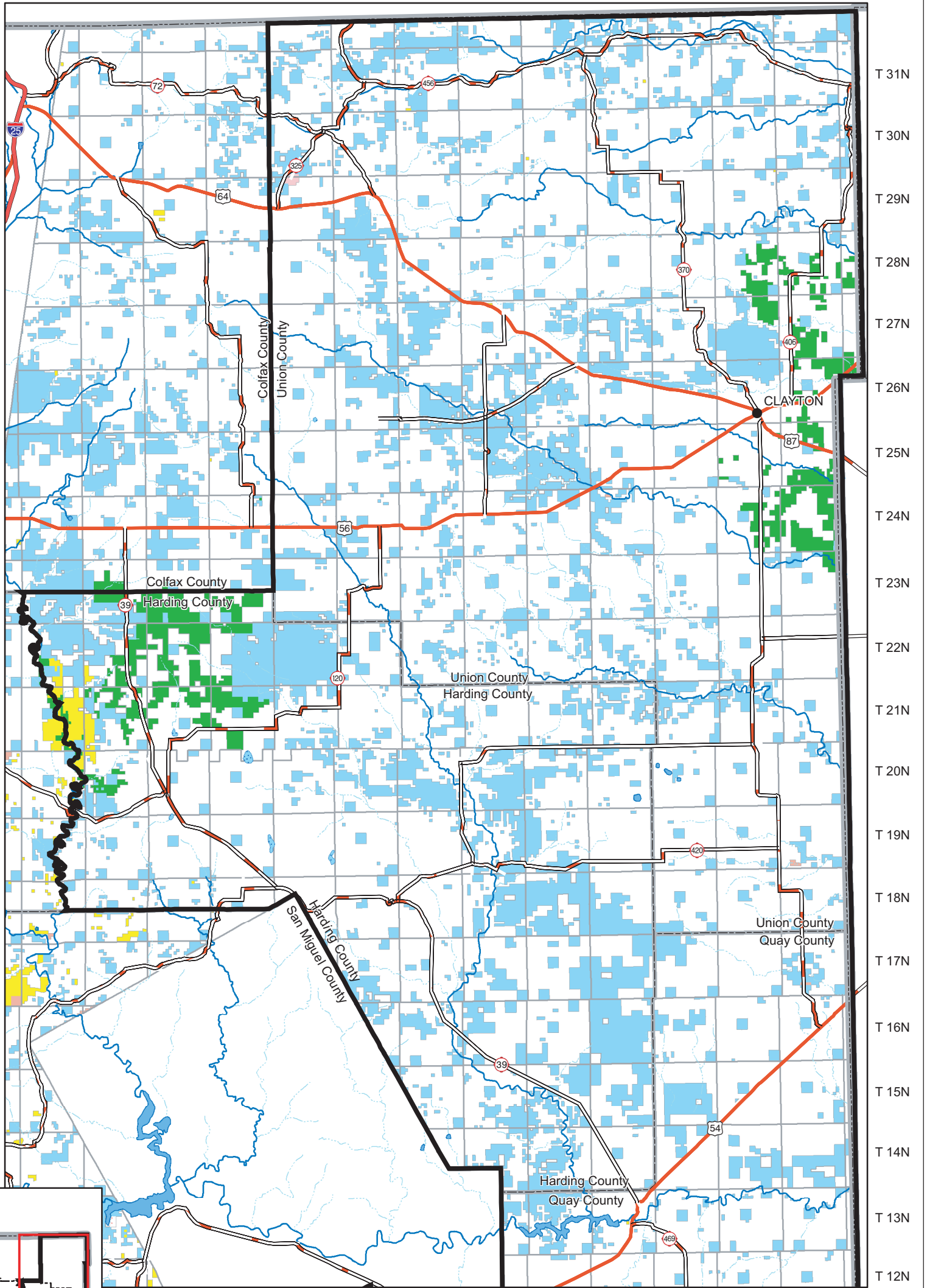
R 24E R 245E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- Intermittent Stream
- Perennial River
- Intermittent water body
- Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range

**Land Ownership**

- Private
- State
- Forest Service
- Bureau of Land Management
- Department of Defense
- Unknown/No data



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. Land ownership coverage developed by BLM at 1:100,000 scale.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

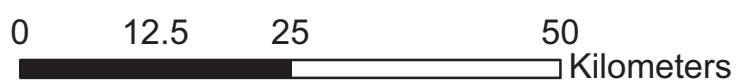
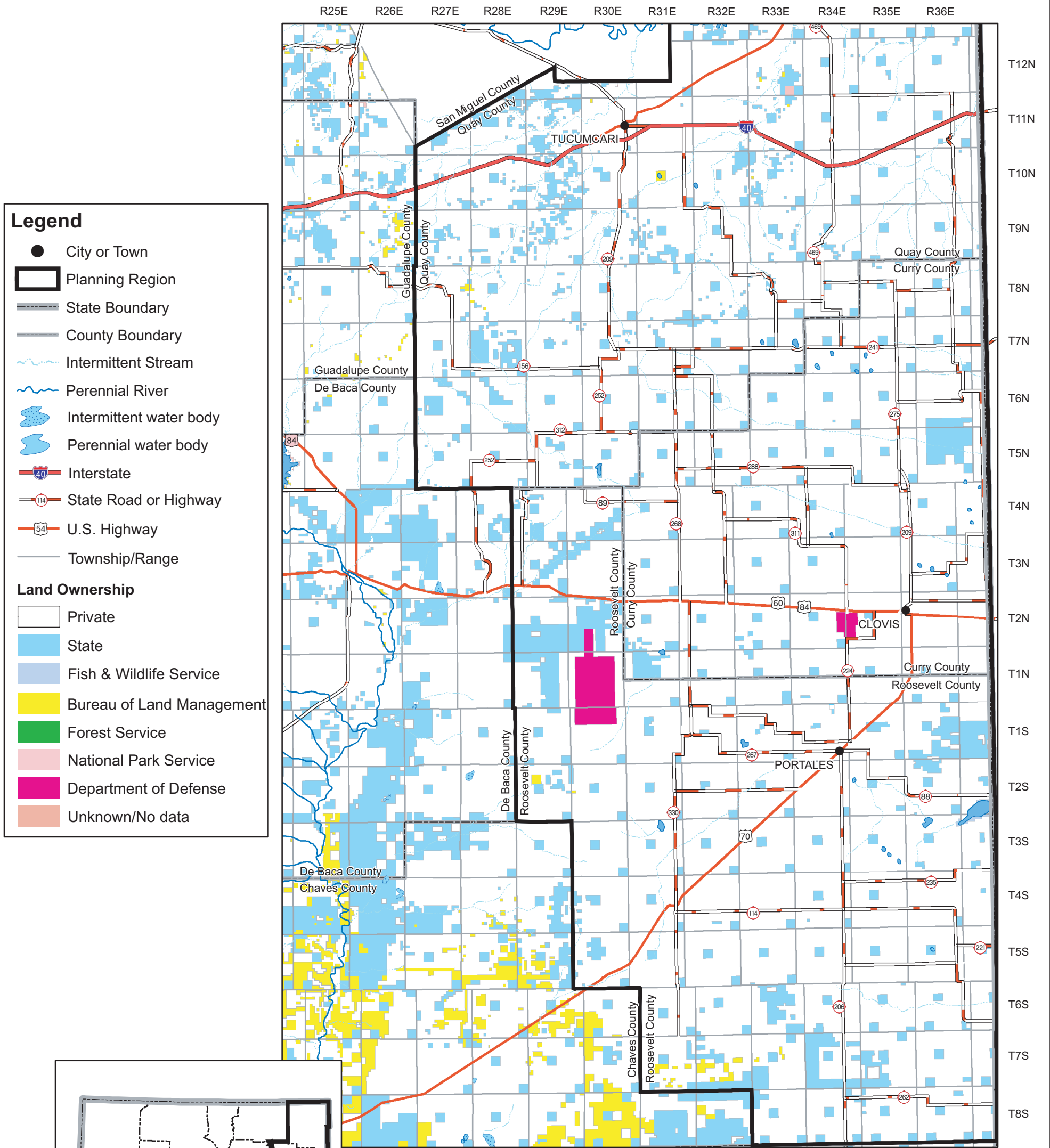


Figure A-3a

# Northeast New Mexico Regional Water Plan (Southern Portion)

## Land Ownership in Region



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. Land ownership coverage developed by BLM at 1:100,000 scale.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.



0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-3b

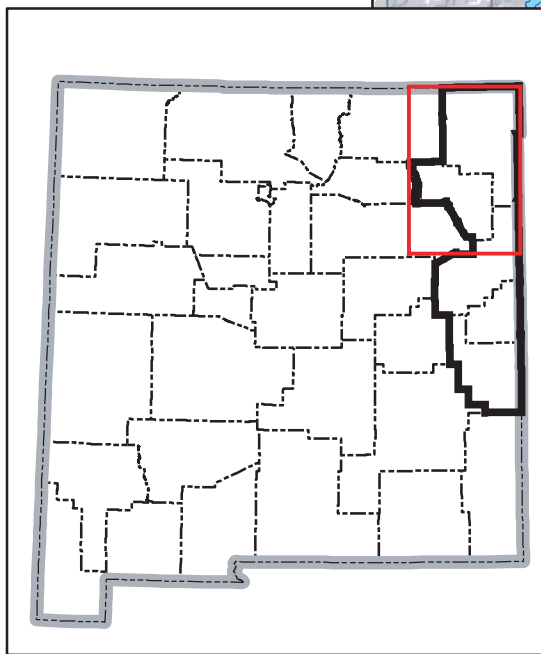
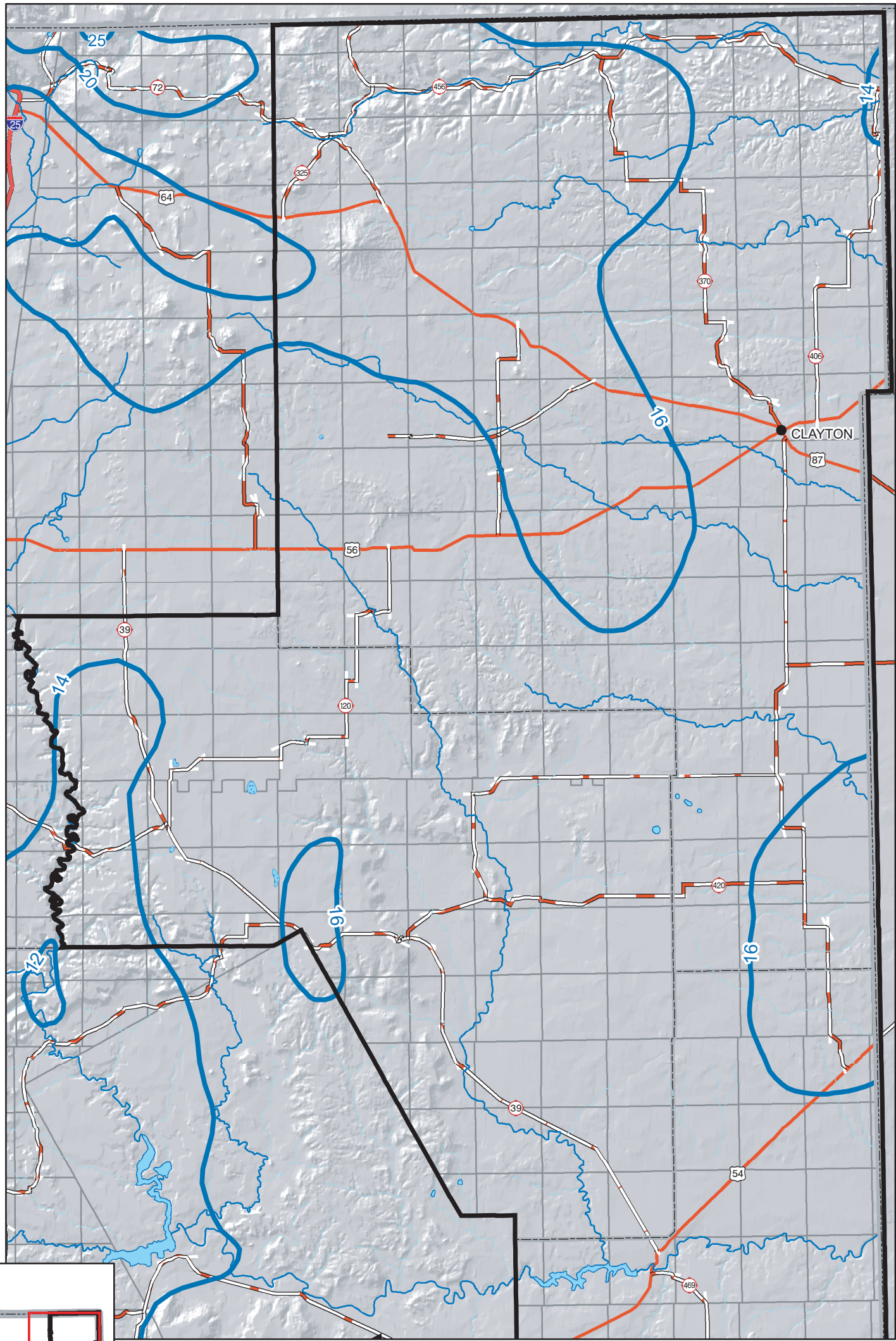
# Northeast New Mexico Regional Water Plan (Northern Portion)

## Average Annual Precipitation in inches

R 24E R 245E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- Average Precipitation in inches
- ◊ Intermittent water body
- ◊ Perennial water body
- ▬ Interstate
- ▬ State Road or Highway
- ▬ U.S. Highway
- ▬ Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The data set was created to digitally represent the average precipitation of the state of New Mexico between the years of 1931 and 1960. The original source of the data set came from National Oceanic and Atmospheric Administration (NOAA). Earth Data Analysis Center manually digitized from the NOAA 1:500,000 scale map of the state of New Mexico.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

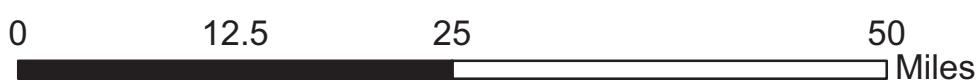
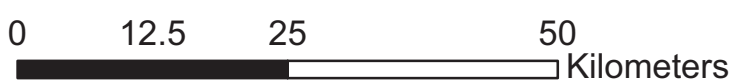
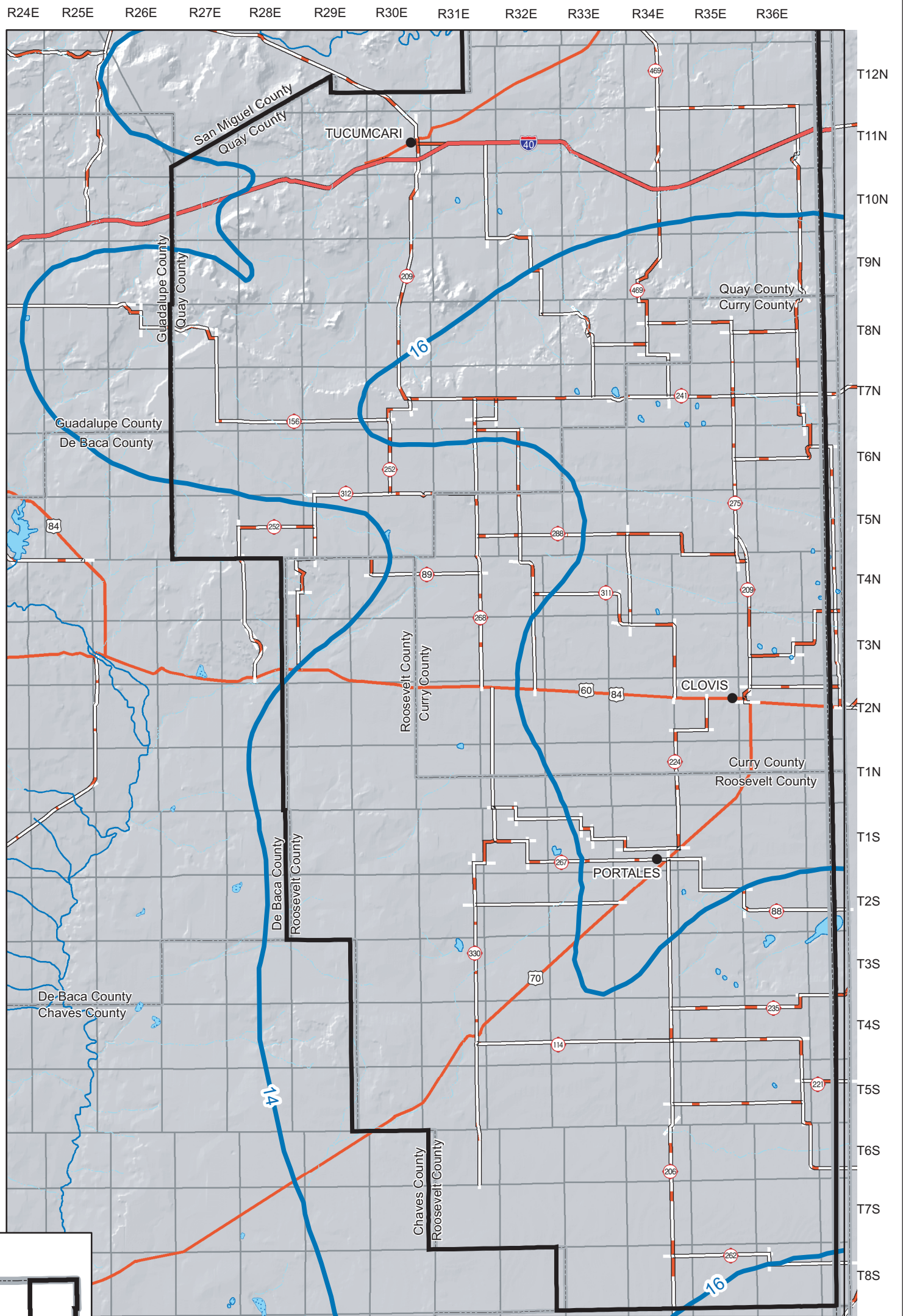


Figure A-4a



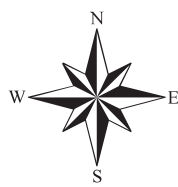
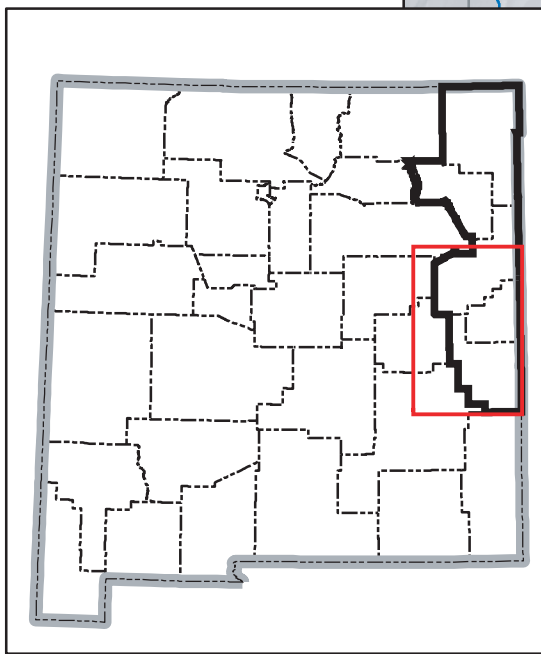
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Average Annual Precipitation in inches



**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- Average Precipitation in inches
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

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Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-4b

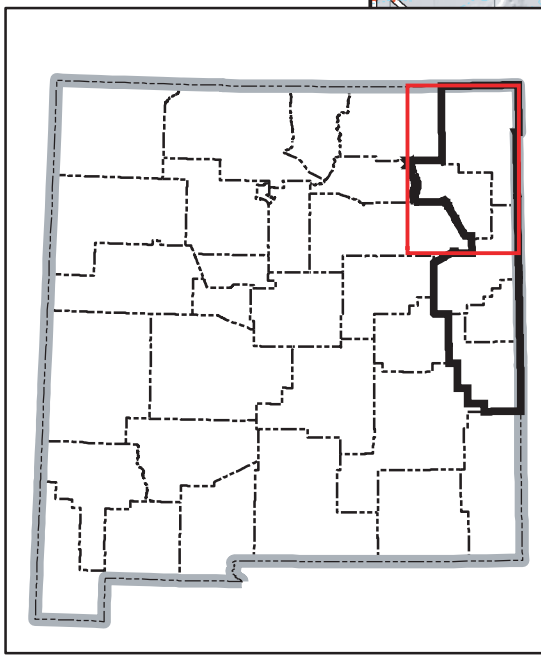
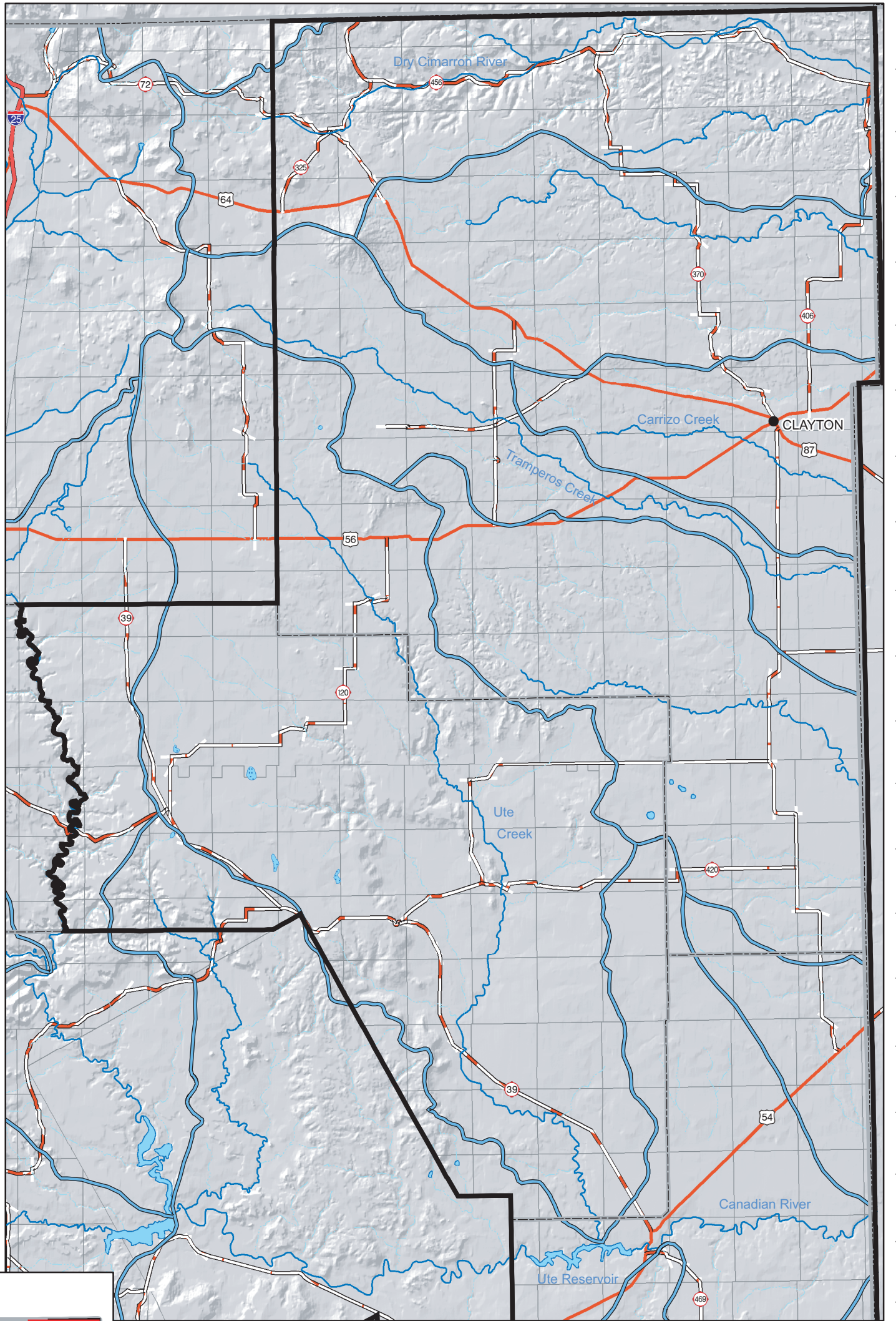
# Northeast New Mexico Regional Water Plan (Northern Portion)

## Surface Waters in Region

R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ⋯ Intermittent Stream
- Perennial River
- ◊ Intermittent water body
- ◊ Perennial water body
- Watershed Boundary
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

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Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

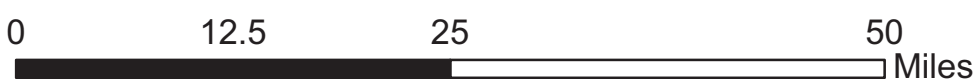
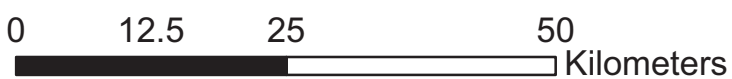


Figure A-5a

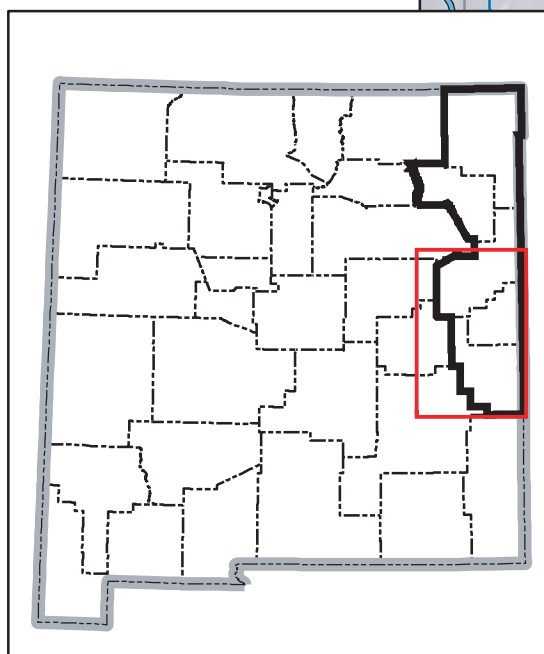
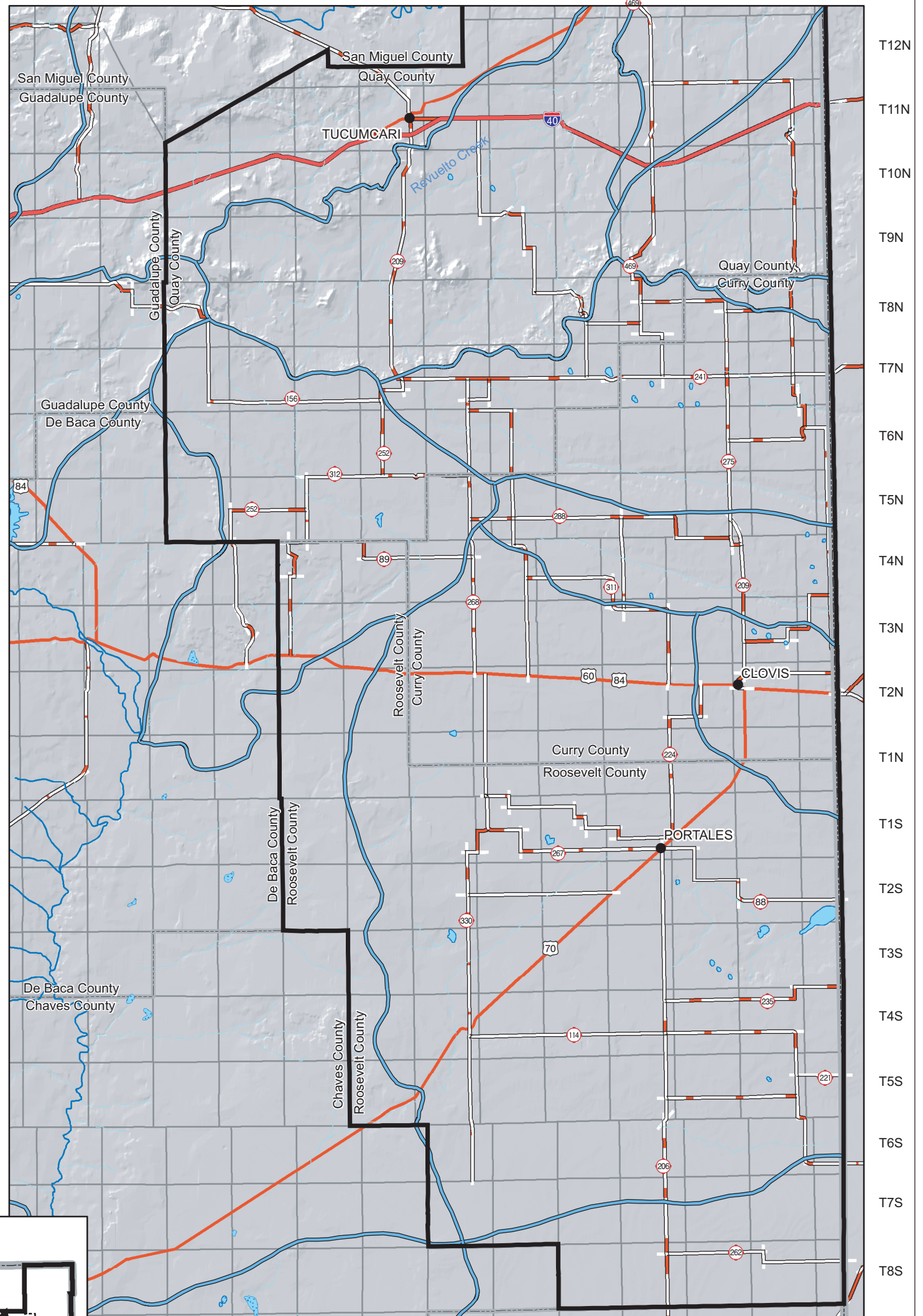
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Surface Waters in Region

R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ◼ Intermittent water body
- ◼ Perennial water body
- Watershed Boundary
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey.

Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. Watershed boundaries based on USGS 1:500,000 and 1:100,000 scale maps.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

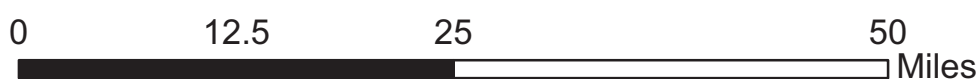
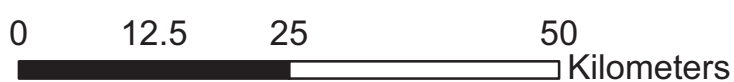


Figure A-5b

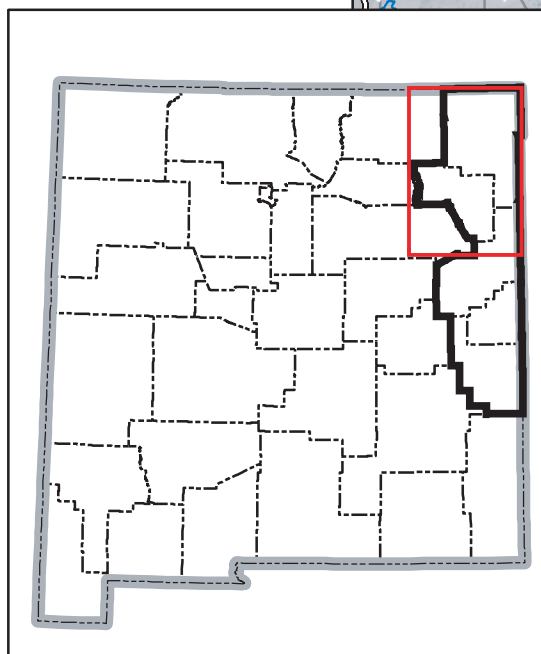
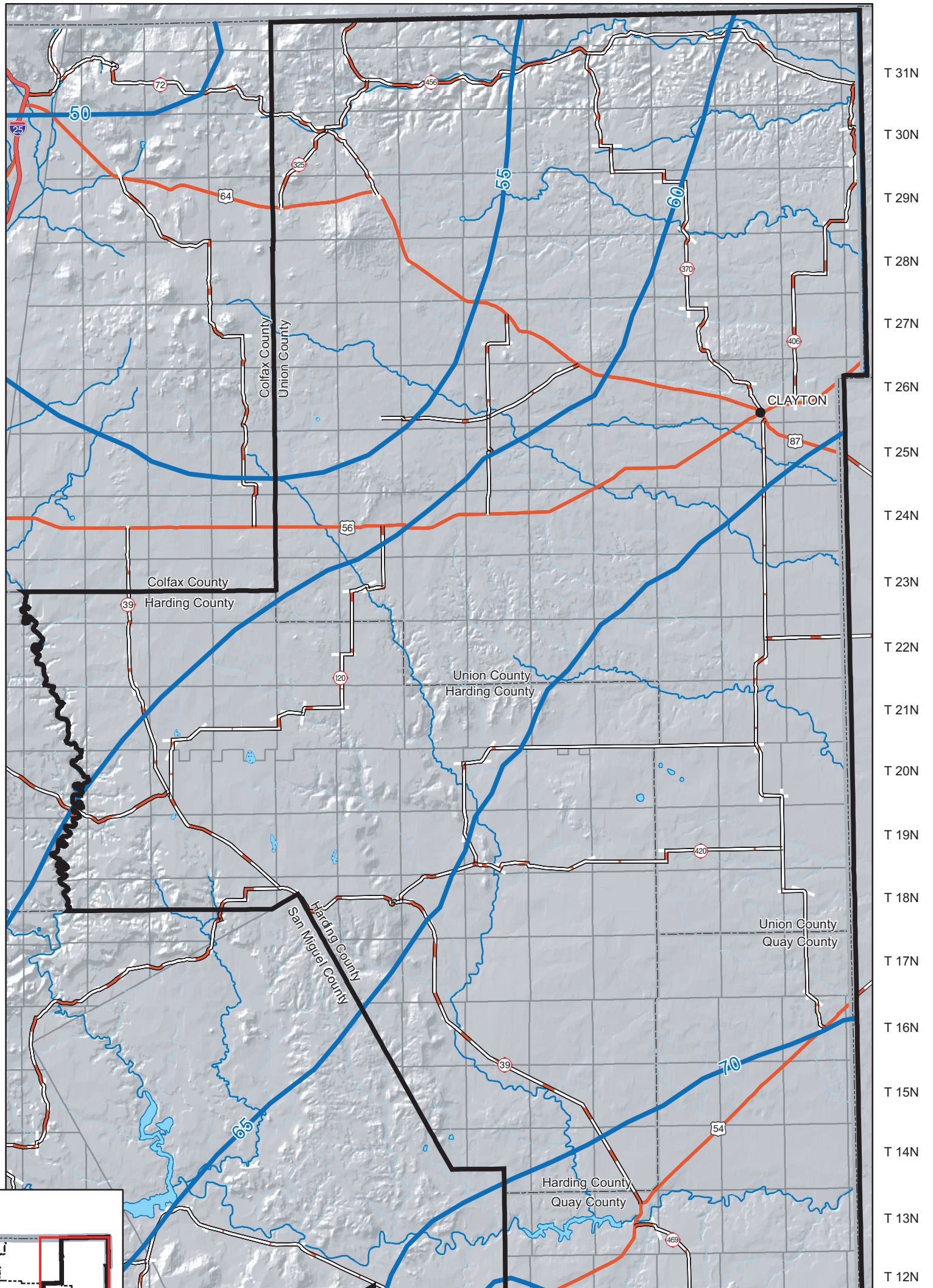
# Northeast New Mexico Regional Water Plan (Northern Portion)

## Average Annual Free Surface Water Evaporation from 1931-1960 (inches)

R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

### Legend

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- Average Annual Free Surface Water Evaporation (inches)
- ☁ Intermittent water body
- ☁ Perennial water body
- 🛣 Interstate
- 🛣 State Road or Highway
- 🛣 U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 mylar sheets and 1:100,000 paper maps for New Mexico. These data meet National Mapping Accuracy Standards for 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

This data set contains the evaporation isopleths of the state of New Mexico. The data set was created to digitally represent the average free surface water evaporation of the state of New Mexico between the years of 1931 and 1960. The data set originated from the National Oceanic and Atmospheric Administration (NOAA). Earth Data Analysis Center manually digitized from the NOAA 1:500,000 scale map of the state of New Mexico.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

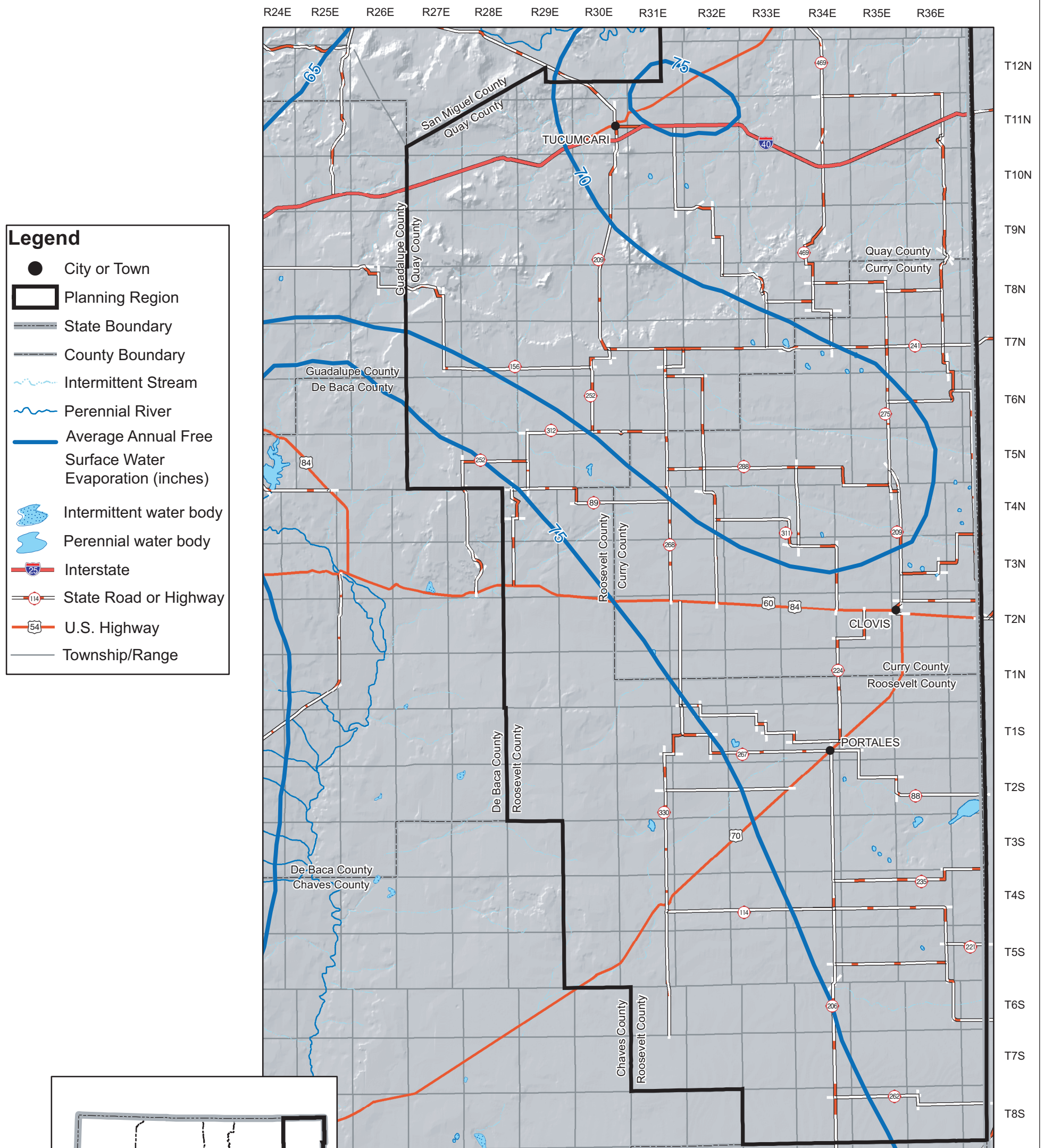
0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-6a

# Northeast New Mexico Regional Water Plan (Southern Portion)

Average Annual Free Surface Water Evaporation from 1931-1960 (inches)



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 mylar sheets and 1:100,000 paper maps for New Mexico. These data meet National Mapping Accuracy Standards for 1:500,000 and 1:1,000,000 scale maps. Shaded relief provided by RGIS and is based on 1:250,000 Digital Elevation Models (DEMs) created by the U.S. Geological Survey. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

This data set contains the evaporation isopleths of the state of New Mexico. The data set was created to digitally represent the average free surface water evaporation of the state of New Mexico between the years of 1931 and 1960. The data set originated from the National Oceanic and Atmospheric Administration (NOAA). Earth Data Analysis Center manually digitized from the NOAA 1:500,000 scale map of the state of New Mexico.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-6b

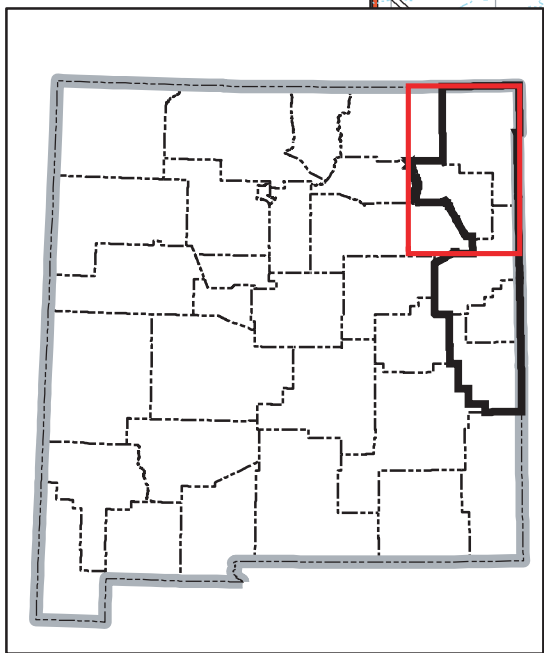
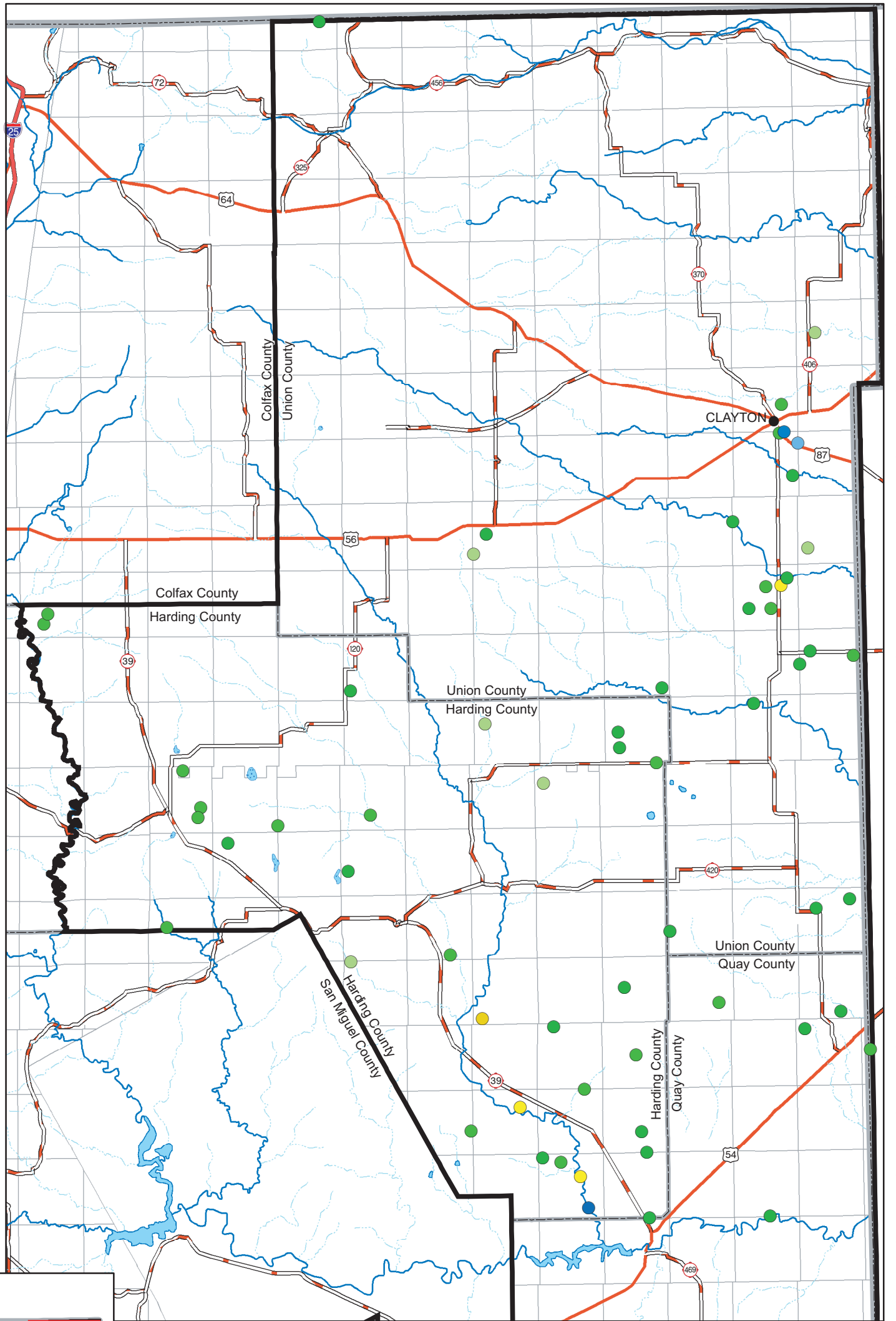
# Northeast New Mexico Regional Water Plan (Northern Portion)

## Depth to Water

R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range
- 0 - 75 ft
- 76 - 150 ft
- 151 - 225 ft
- 226 - 300 ft
- 301 - 375 ft
- 376 - 450 ft
- 451 - 525 ft
- 526 - 600 ft



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

Depth to groundwater points are based on USGS GWSI database records for well locations and water depth.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-7a

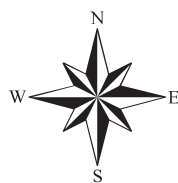
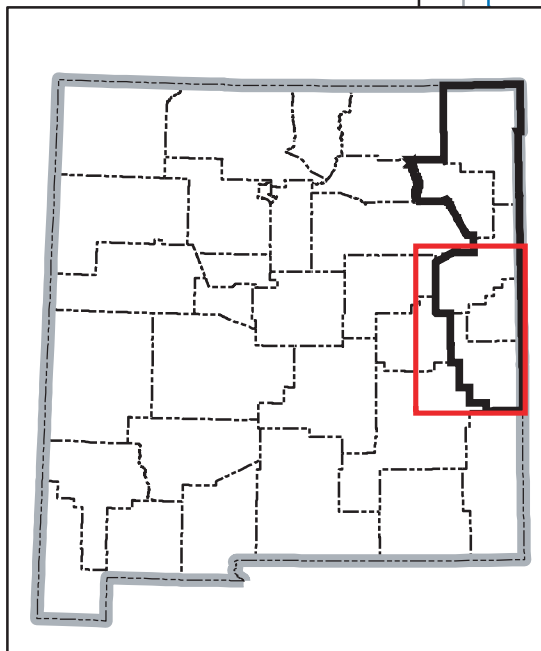
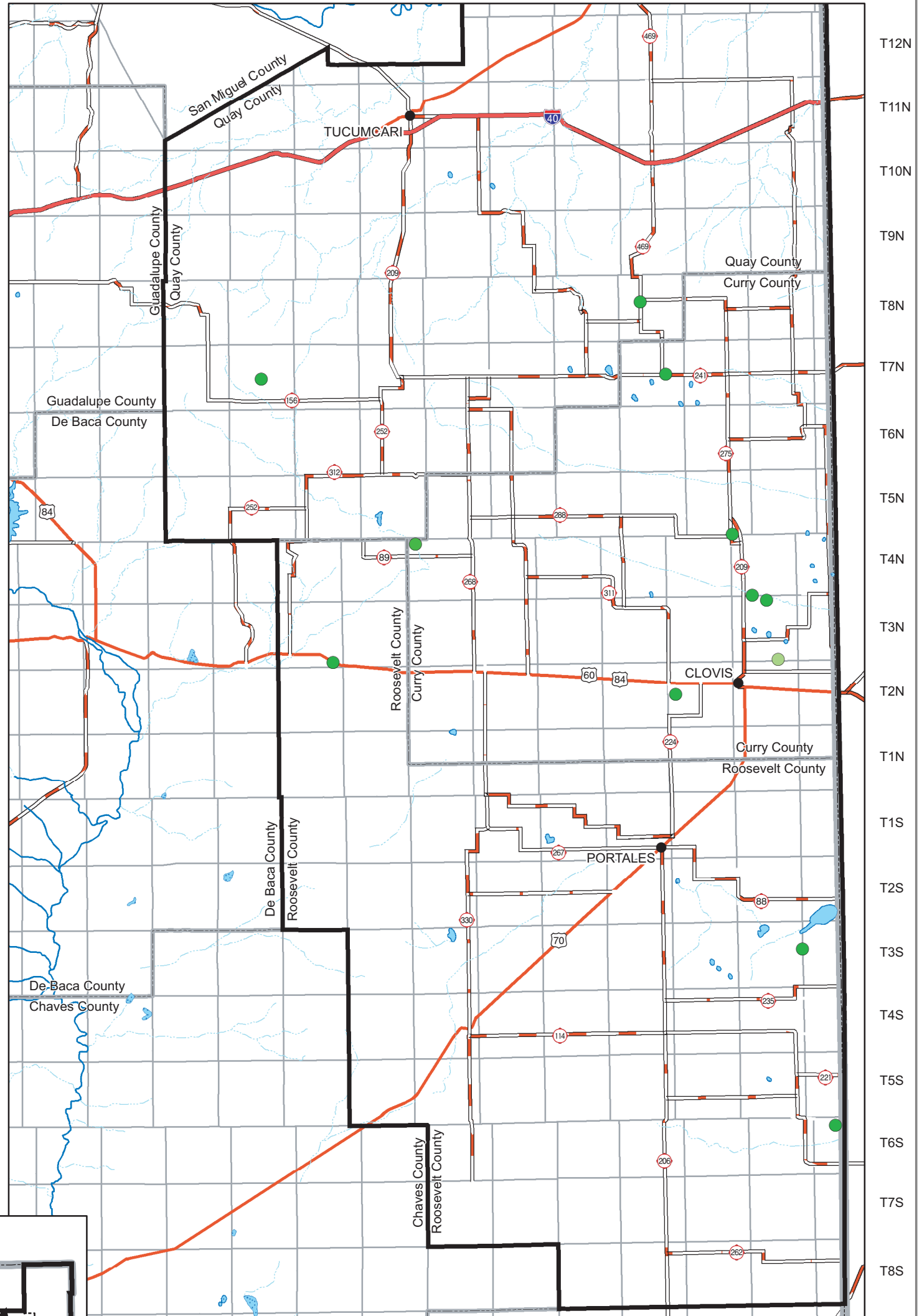
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Depth to Water

R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range
- 0 - 75 ft
- 76 - 150 ft
- 151 - 225 ft



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

Depth to ground water points are based on USGS GWSI database records for well locations and water depth.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

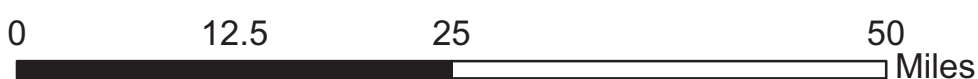
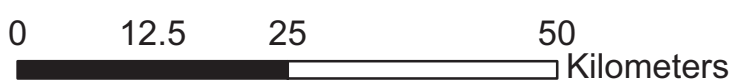


Figure A-7b

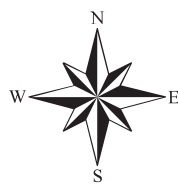
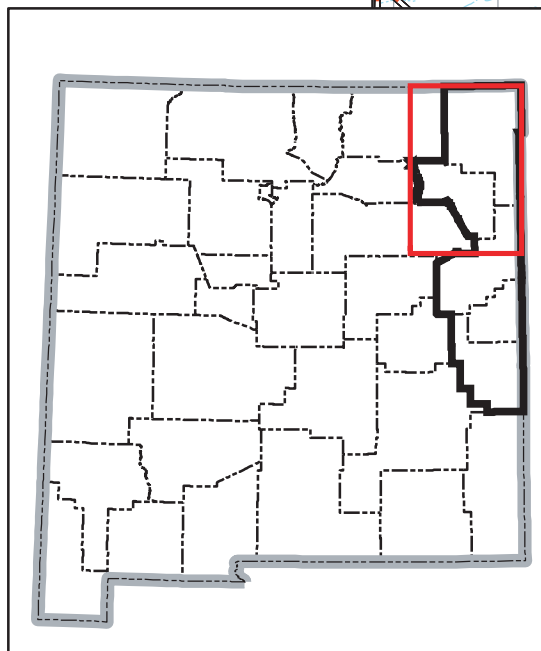
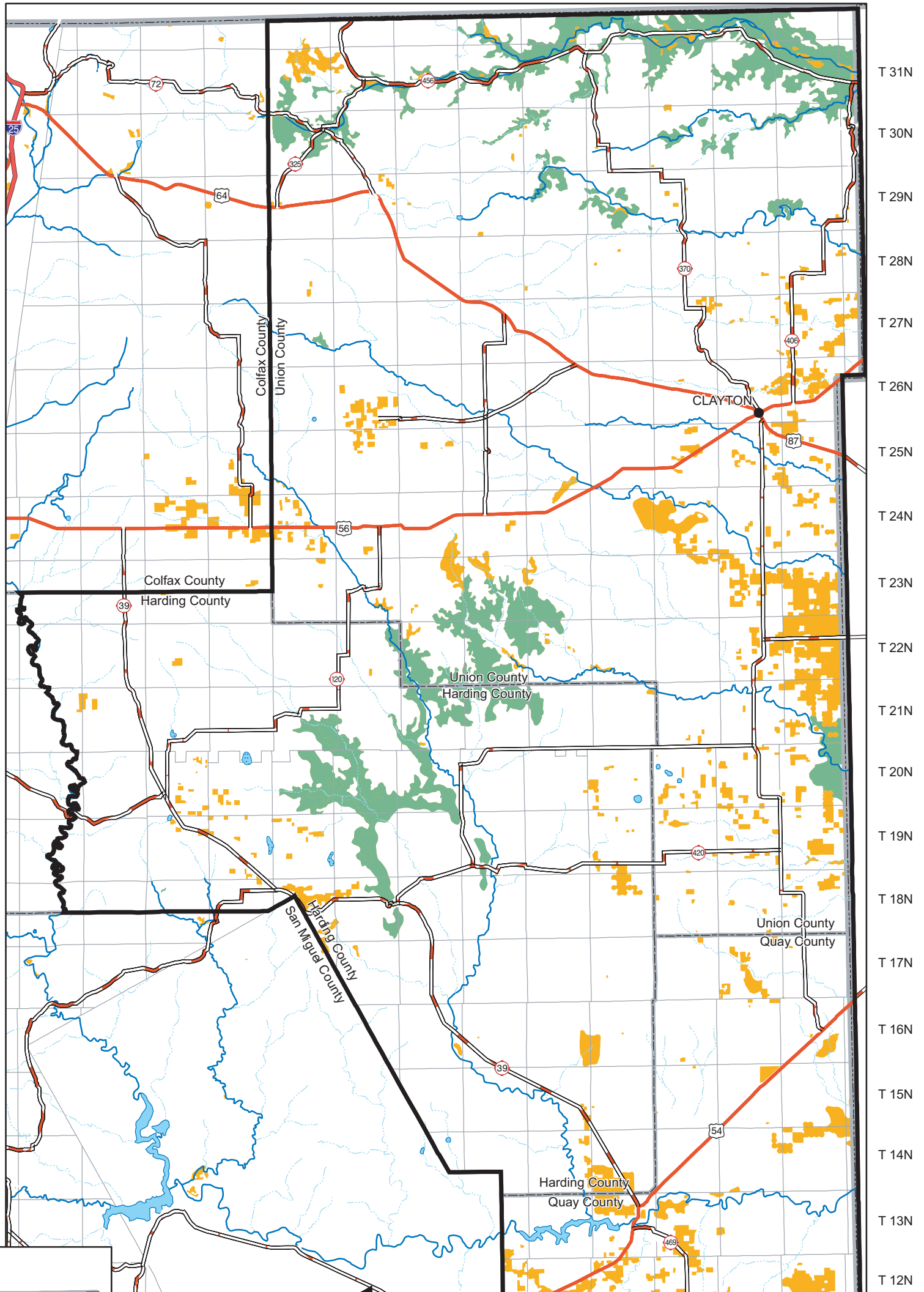
# Northeast New Mexico Regional Water Plan (Northern Portion)

## Agricultural Lands and Riparian Vegetation in Region

R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- Agricultural Lands
- Riparian Vegetation
- State Boundary
- County Boundary
- ⋯ Intermittent Stream
- ~ Perennial River
- ☪ Intermittent water body
- ☪ Perennial water body
- 🛣 Interstate
- 🛣 State Road or Highway
- 🛣 U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The riparian and agricultural coverages are based upon the land use coverage that was developed by USGS/EPA at 1:250,000 scale.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

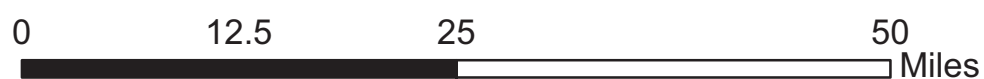
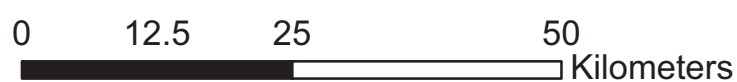


Figure A-8a



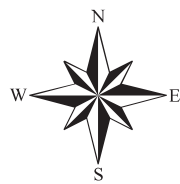
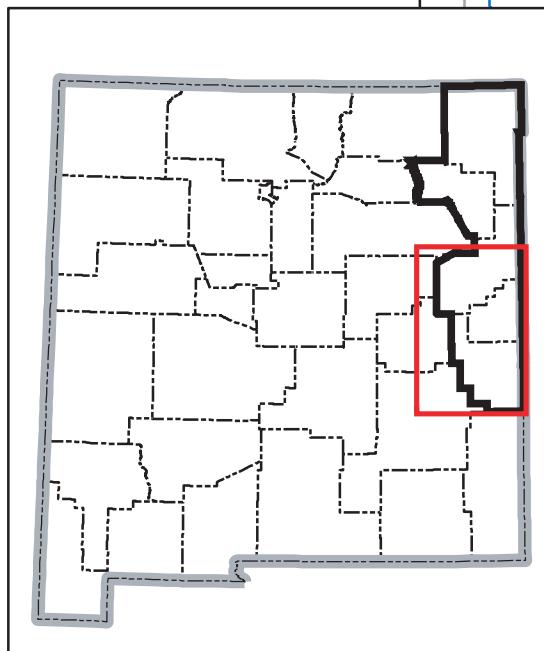
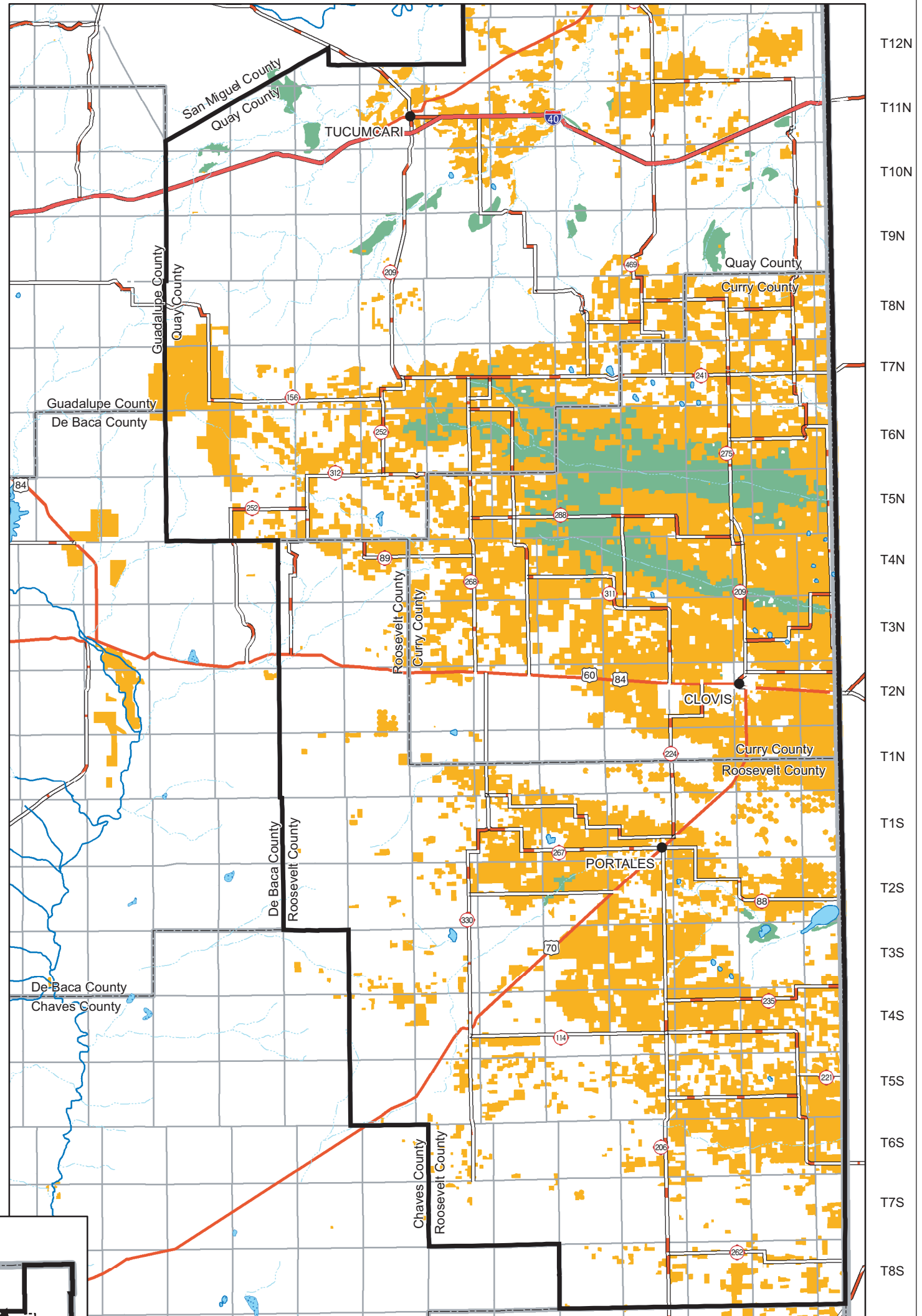
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Agricultural Lands and Riparian Vegetation in Region

R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- Agricultural Lands
- Riparian Vegetation
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- Intermittent water body
- Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

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Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

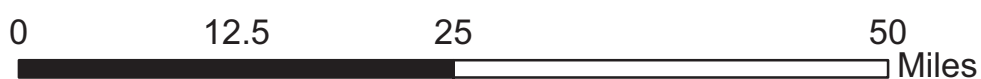
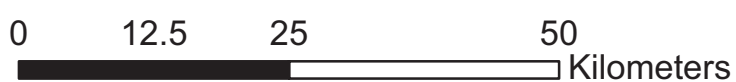


Figure A-8b

# Northeast New Mexico Regional Water Plan (Northern Portion)

## TDS Concentration in Planning Region

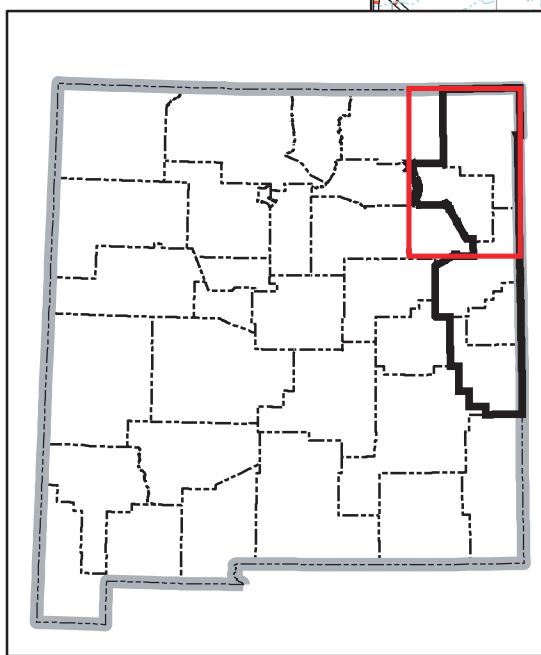
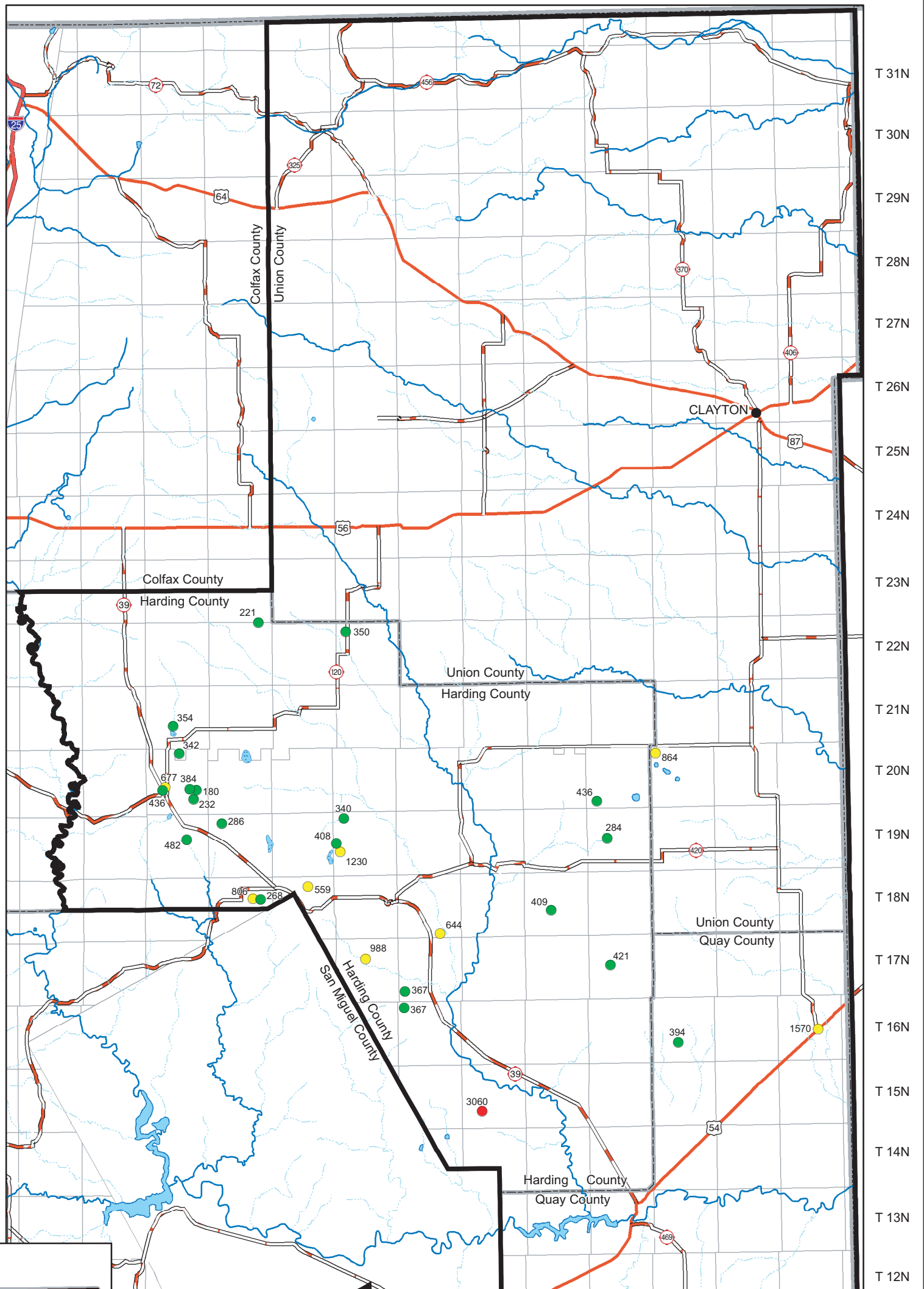
R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range

**TDS concentration in Water Wells (mg/L)**

- < 500
- 500 - 2000
- > 2000



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The water quality data is derived from USGS GWSI database.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-9a

# Northeast New Mexico Regional Water Plan (Southern Portion)

## TDS Concentration in Planning Region

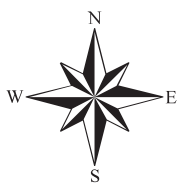
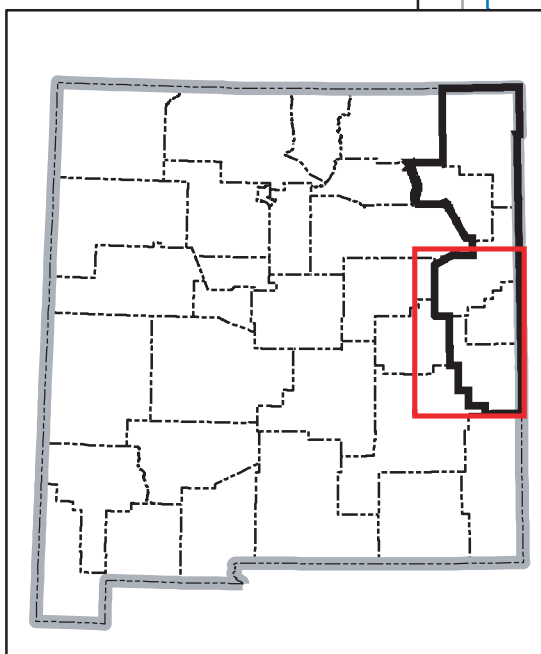
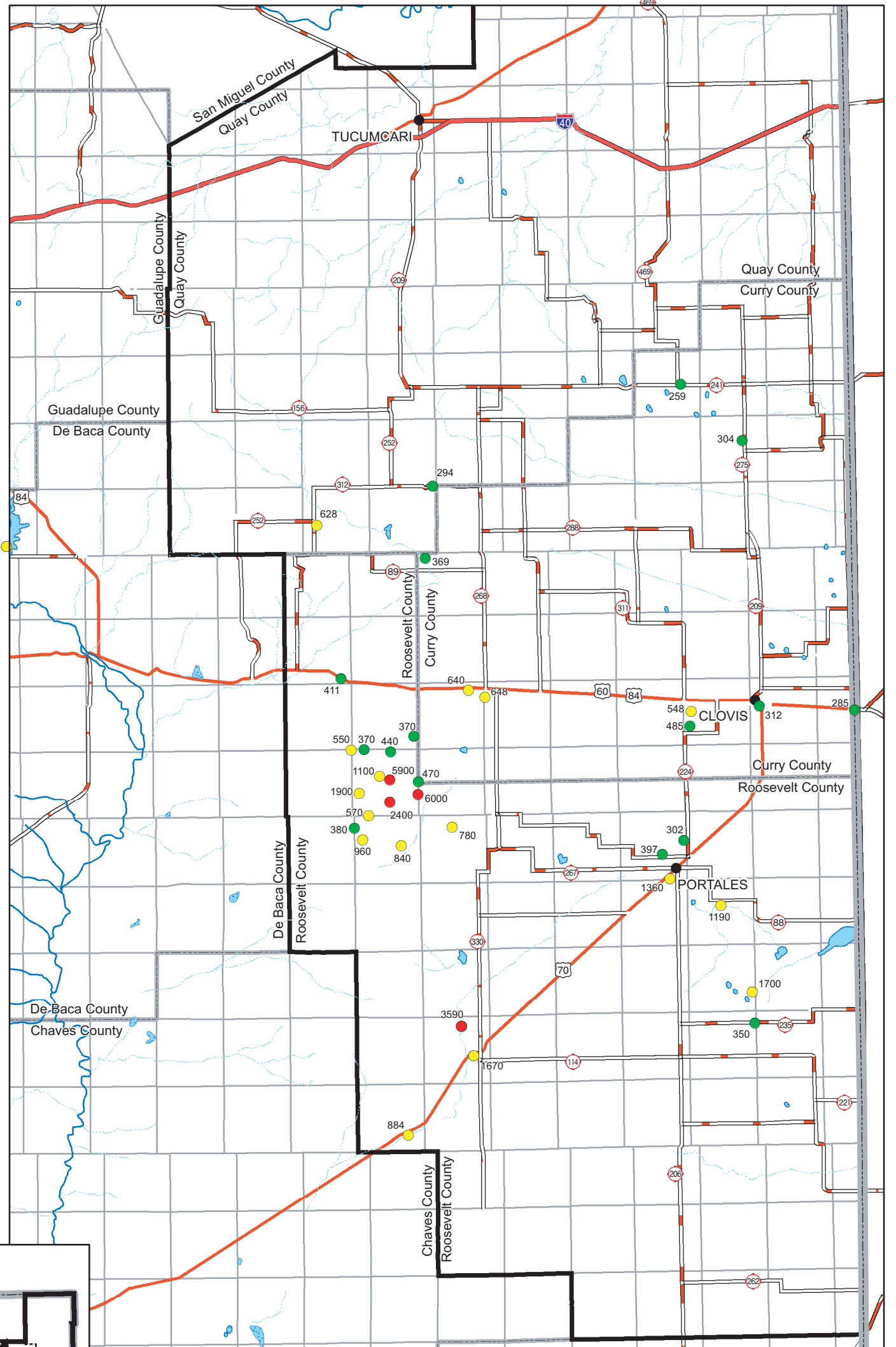
R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ~ Intermittent water body
- ~ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range

TDS concentration in water wells (mg/L)

- < 500
- 500 - 2000
- > 2000



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

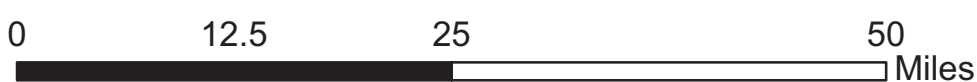
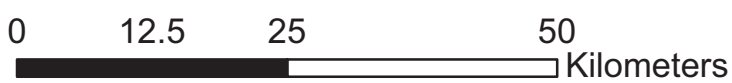


Figure A-9b

# Northeast New Mexico Regional Water Plan (Northern Portion)

## Sulfate Levels in the Planning Region

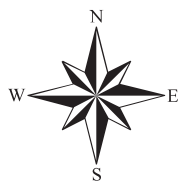
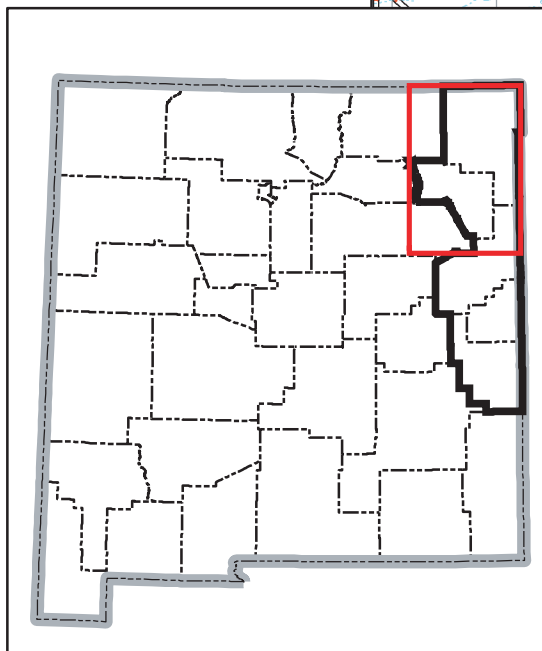
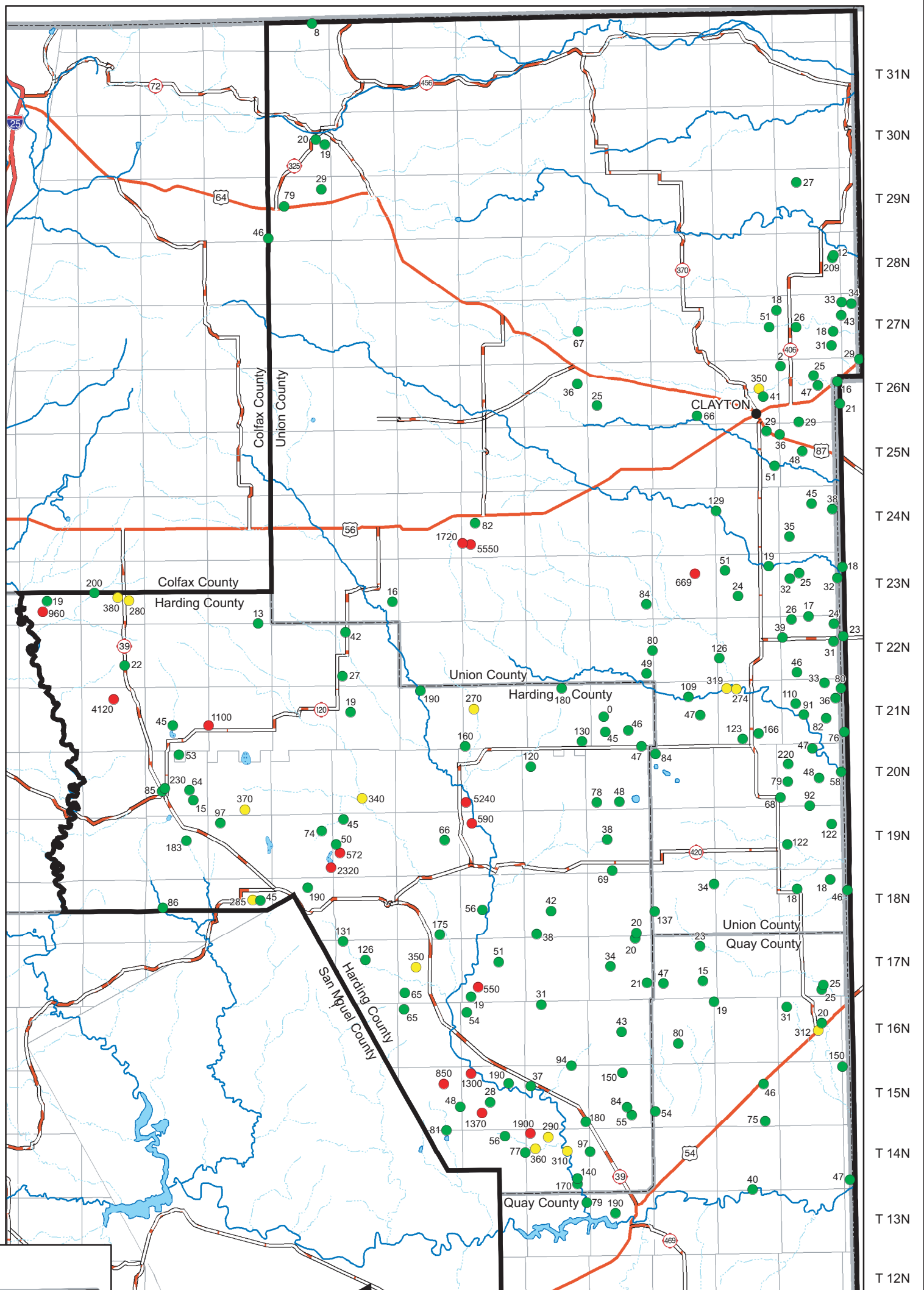
R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- ▬ State Boundary
- ▬ County Boundary
- ▬ Intermittent Stream
- ▬ Perennial River
- ▬ Intermittent water body
- ▬ Perennial water body
- ▬ Interstate
- ▬ State Road or Highway
- ▬ U.S. Highway
- ▬ Township/Range

**Sulfate concentration in water wells (mg/L)**

- < 250
- 250 - 500
- > 500



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The water quality data is derived from USGS GWSI database.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-10a

# Northeast New Mexico Regional Water Plan (Southern Portion)

## Sulfate Levels in the Planning Region

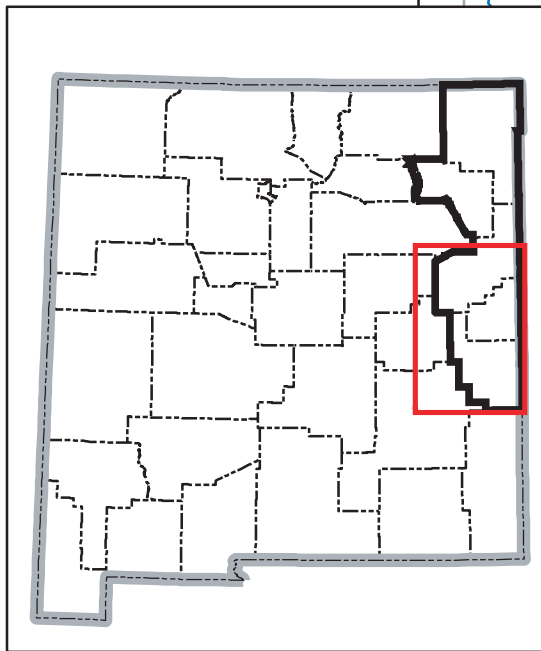
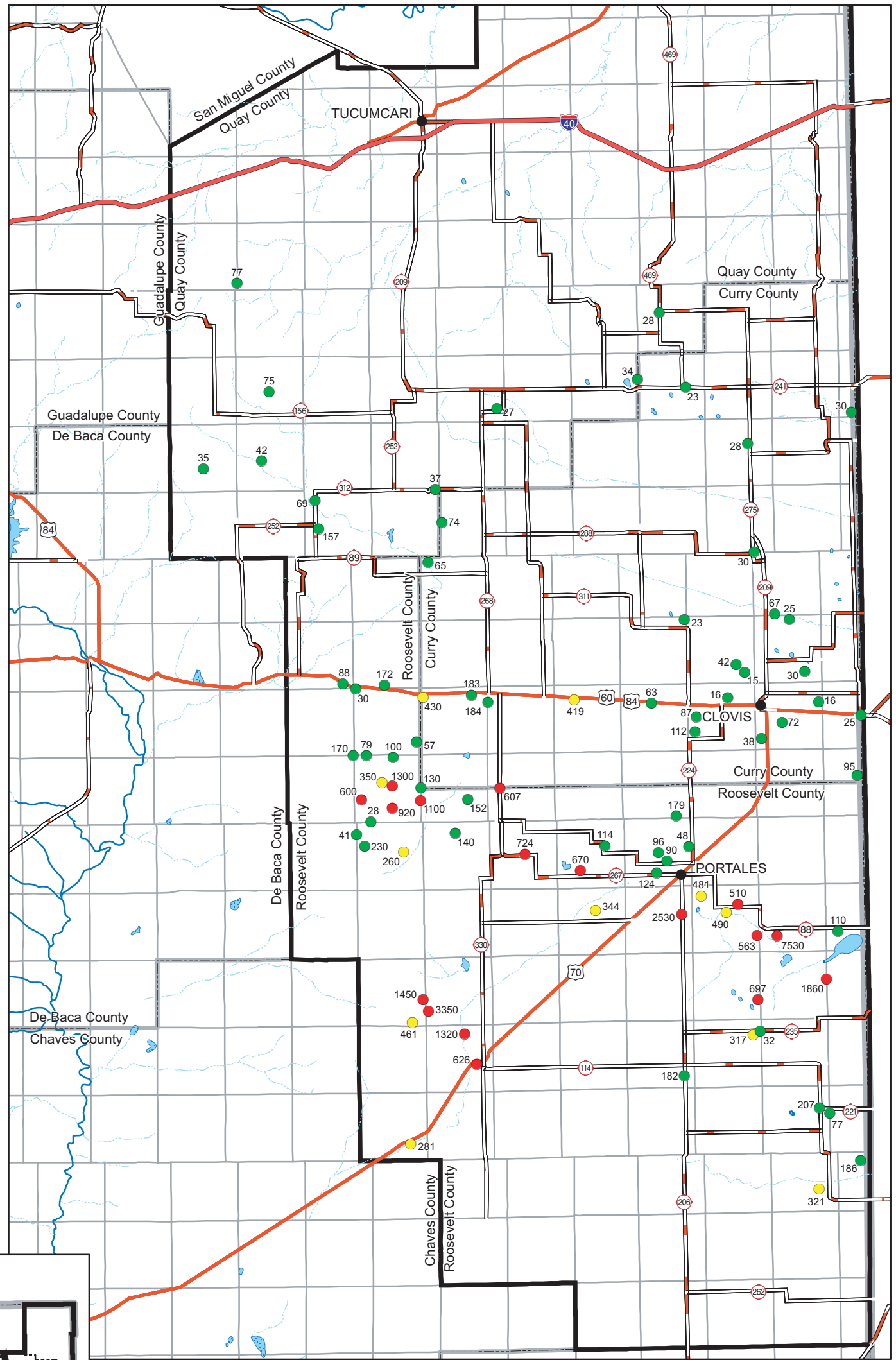
R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- ~ Intermittent Stream
- ~ Perennial River
- ◼ Intermittent water body
- ◼ Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range

**Sulfate concentration in water wells (mg/L)**

- < 250
- 250 - 500
- > 500



Produced by the New Mexico Water Resources Research Institute, May 2005

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides. The water quality data is derived from USGS archives stored in the GWSI database.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

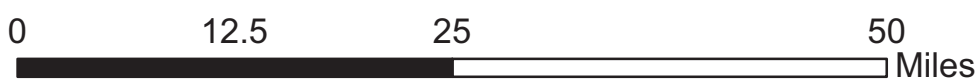
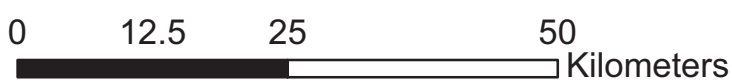


Figure A-10b

# Northeast New Mexico Regional Water Plan (Northern Portion)

## Nitrate Levels in the Planning Region

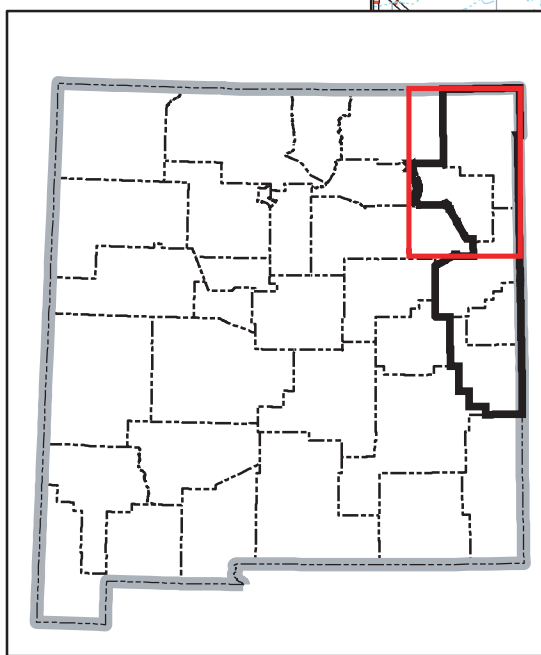
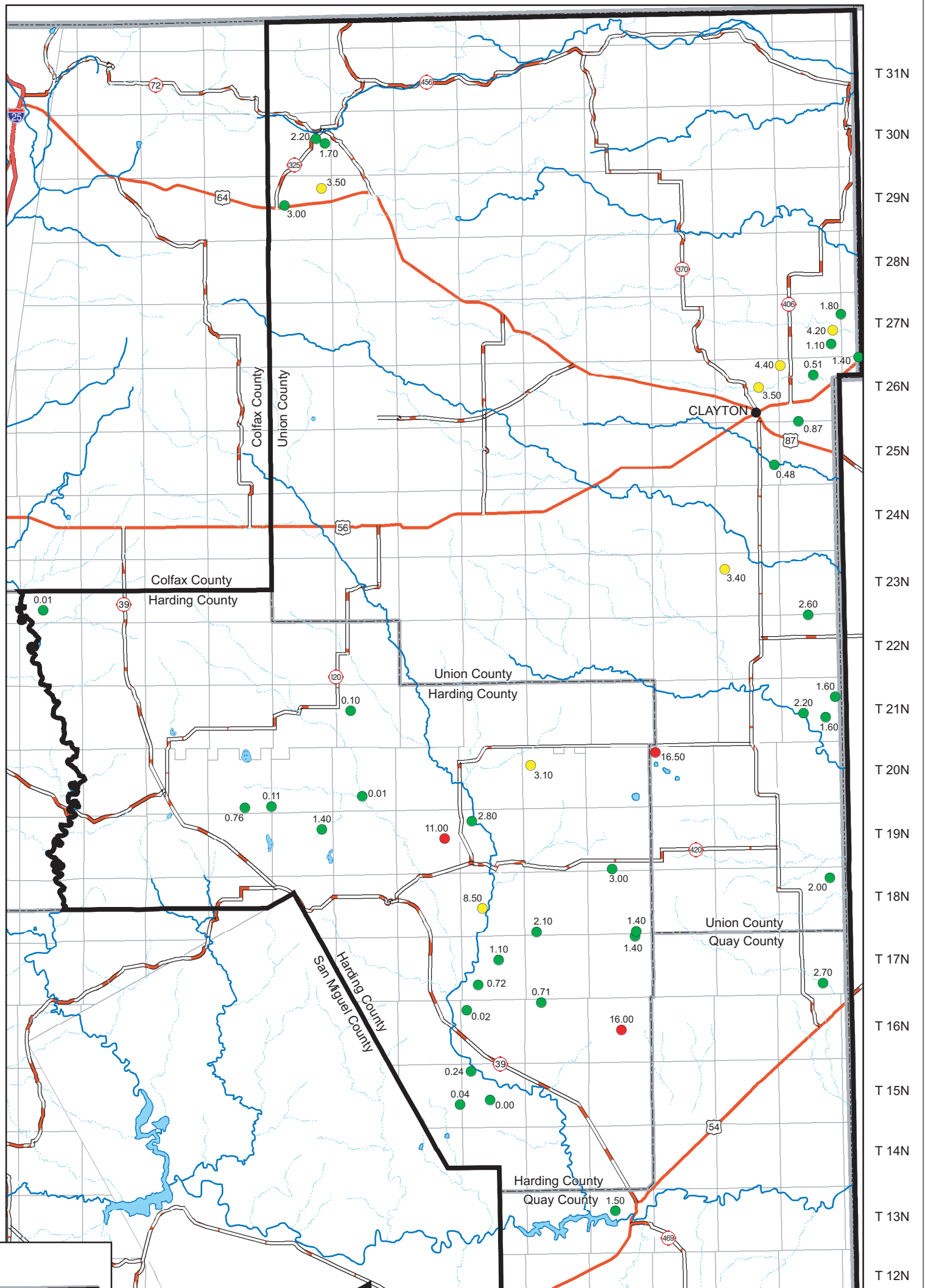
R 24E R 25E R 26E R 27E R 28E R 29E R 30E R 31E R 32E R 33E R 34E R 35E R 36E

**Legend**

- City or Town
- ▭ Planning Region
- State Boundary
- County Boundary
- Intermittent Stream
- Perennial River
- Intermittent water body
- Perennial water body
- Interstate
- State Road or Highway
- U.S. Highway
- Township/Range

**Nitrate concentration in water wells (mg/L)**

- < 3
- 3 - 10
- > 10



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The water quality data is derived from USGS GWSI database.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

0 12.5 25 50 Kilometers

0 12.5 25 50 Miles

Figure A-11a

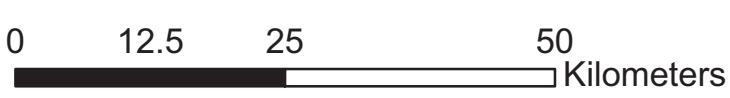
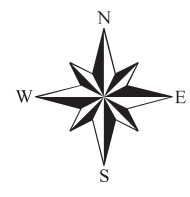
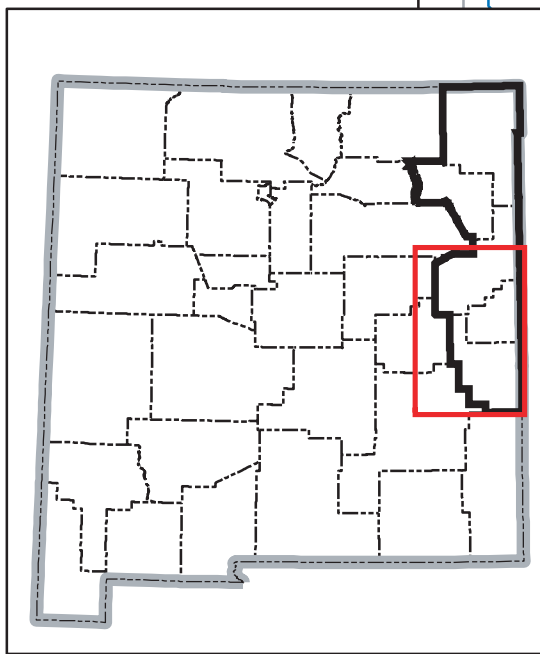
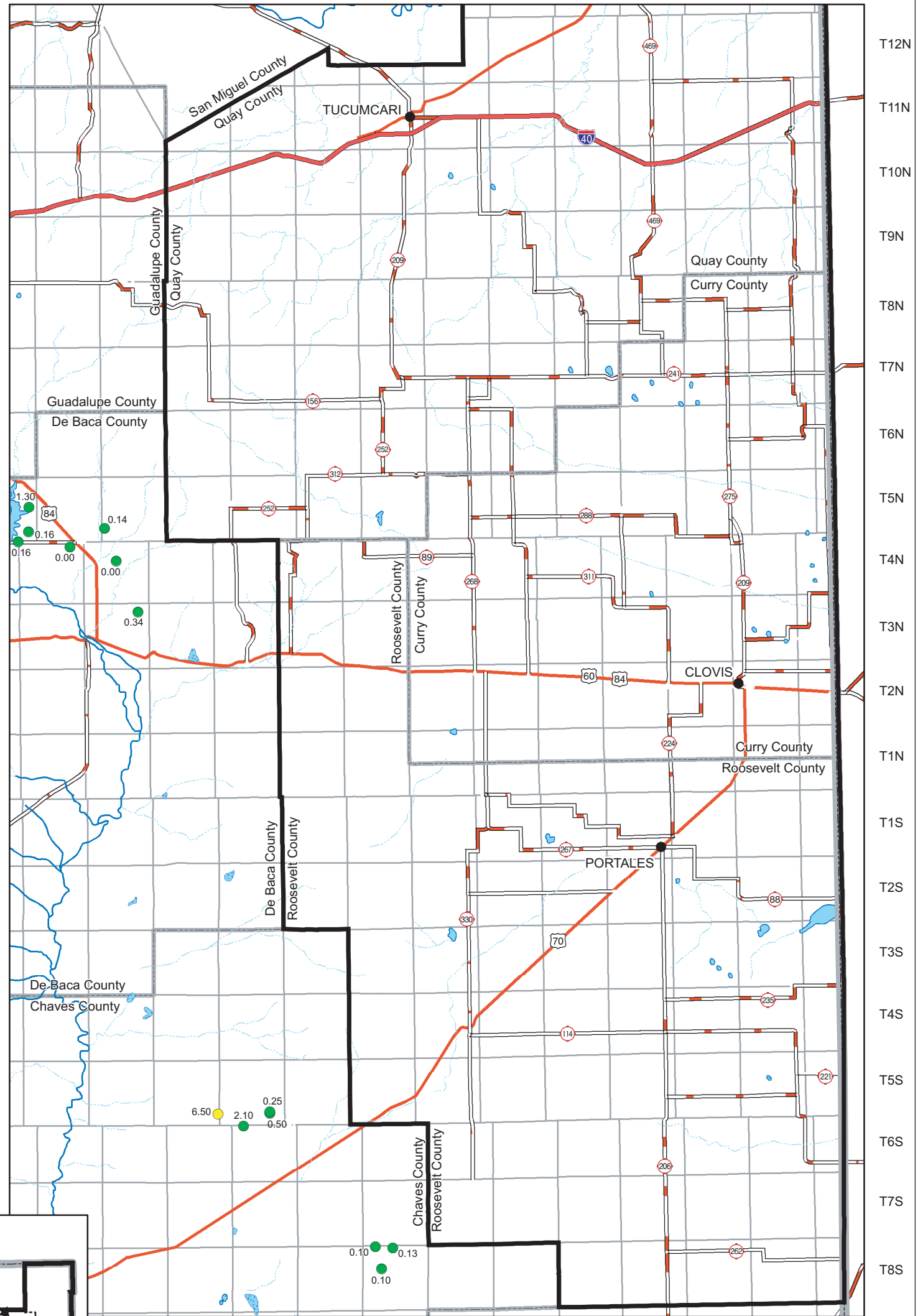
# Northeast New Mexico Regional Water Plan (Southern Portion)

## Nitrate Levels in the Planning Region

R24E R25E R26E R27E R28E R29E R30E R31E R32E R33E R34E R35E R36E

### Legend

- City or Town
  - ▭ Planning Region
  - State Boundary
  - County Boundary
  - ~ Intermittent Stream
  - ~ Perennial River
  - ~ Intermittent water body
  - ~ Perennial water body
  - Interstate
  - State Road or Highway
  - U.S. Highway
  - Township/Range
- Nitrate concentration in water wells (mg/L)**
- < 3
  - 3 - 10
  - > 10



Produced by the New Mexico Water Resources Research Institute, June 2006

Base map prepared by the U.S. Geological Survey

Compiled from digital data provided by the New Mexico Resources Geographic Information System Program (RGIS). Original base maps digitized from 1:500,000 and 1:1,000,000 scale maps. Boundary of the Northeast New Mexico Water Planning Region is based on county lines and surface drainage divides.

The water quality data is derived from USGS GWSI database.

Horizontal accuracy: At the scale of 1:650,000 at least 90% of the points tested are within 1/30th inch (0.0333 inch), or within 547 ground meters, of their true location.

Projection: Universal Transverse Mercator, Zone 13, Units meters, NAD83.

Figure A-11b